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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
JANUARY 1969
Volume 65 No. 1

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S.I., TECH. & AGR. DIV.

CLIMATOLOGICAL DATA

Station		Temperature													Precipitation									
											No. of Days								Snow, Sleet			No. of Days		
											Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														7.62	.90			.0	0				
KANALOHULUMULU 1075		58.7	47.2	53.0		64	12+	33	20		0	0	0	0	27.85		16.75	6	.0	0		17	8	4
KAPAA STABLES 1104	A														4.46				.0	0				
KILAUEA FIELD 17 1135	A														16.84	6.75			.0	0				
KILAUEA POINT 1133		76.9M	64.7M	70.8M		84	1	60	30+		0	0	0	0	9.27		4.28	5	.0	0		10	5	3
KOLOA 936	A														8.37	1.46	3.20	31	.0	0				
LIHUE W8 AP 1020.1	R	73.1	58.5	65.8	- 5.1	78	2+	50	22		0	0	0	0	4.97	- .54	1.19	30	.0	0		10	4	2
MANA 1026		75.7M	60.2M	68.0M	- 3.1	81	31+	54	22		0	0	0	0	4.43	.37	1.77	6	.0	0		8	3	1
N WAILUA DITCH 1051	A														18.05		9.46	31	.0	0				
PM WAINIHA 1115															32.40	22.17	16.70	6	.0	0		12	8	5
PUEHU RIDGE 1040															5.65		1.72	2	.0	0		9	4	2
WAHIAWA 930	A														4.29	- .74			.0	0				
WAIAHI LOWER 1054		73.4	53.0	63.2		77	15+	44	23+		0	0	0	0	11.49		4.71	31	.0	0		9	5	4
WAIMEA 947															3.43	- .25	1.00	2	.0	0		8	2	1
ISLAND				64.2											11.37				.0					
* * *																								
ISLAND OF OAHU																								
MONOLULU OBSERV 702.2															11.94		6.55	3	.0	0		9	4	3
HONOLULU W8FC 703	R	76.9	61.2	69.1	- 3.4	82	31	52	20		0	0	0	0	8.20	4.44	3.91	3	.0	0		7	4	3
KAMUKU 912	A	75.7M	61.9M	68.8M	- 2.6	83	2	53	20		0	0	0	0	12.12	6.98	3.53	3	.0	0				
KANEOHE MAUKA 781		75.2	62.7	69.0	- 2.5	81	2	55	25		0	0	0	0	15.76	8.46	6.66	3	.0	0		15	9	4
KOOLAU OAM 833															20.51	12.72	7.13	3	.0	0		13	6	5
LUALUALEI 804		76.4M	60.9M	68.7M		80	13+	52	20		0	0	0	0	12.55		6.62	3	.0	0				
MAKAPUU POINT 724		74.4	63.1	68.8		78	11+	56	20		0	0	0	0	9.90	6.31	3.58	3	.0	0		10	6	4
NUUANU RES 4 783															10.20	- .61	2.48	2	.0	0		10	7	4
OPAEULA 870	A	73.7	58.9	66.3	- .5	81	4	50	21+		0	0	0	0	11.92	5.19			.0	0				
PALOLO VALLEY 718															14.54	3.62	3.50	30	.0	0		10	9	6
PRI WAMIAWA 820.2	A	72.6	57.2	64.9		80	13	47	21+		0	0	0	0	16.67				.0	0				
PUNALUU 884	A														18.09		7.50	3	.0	0				
WAMIAWA OAM 863	A														14.14		6.38	2	.0	0				
WAIAMOLE 837	A														21.01	8.62	10.20	3	.0	0				
WAIALUA 847	A	75.6	60.9	68.3	- 2.2	83	1	49	20		0	0	0	0	7.94	3.84	3.78	2	.0	0				
WAIKIKI 717.2		78.1M	60.4M	69.3M		83	2	51	20		0	0	0	0	8.30		3.10	3	.0	0		9	5	4
WAIPAMU 750	A														13.76	9.60	9.10	3	.0	0				
ISLAND				68.1											13.39				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														11.52	7.38	3.61	9	.0	0				
MAPULEHU 542															9.93	6.07	3.00	8	.0	0		9	7	3
MAUNALOA 511	A														9.22	4.95			.0	0				
MOLOKAI AP 524		74.8	61.6	68.2		80	13	52	20		0	0	0	0	10.03		3.19	9	.0	0		11	4	3
ISLAND				68.2											10.18				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	70.8	58.5	64.7	- .9	76	12+	52	26+		0	0	0	0	11.16	6.54	3.84	9	.0	0		11	6	4
ISLAND				64.7											11.16				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														13.90	6.50			.0	0				
HALEAKALA RS 338		56.4	40.2	48.3		70	1	30	24+		0	0	7	0	15.03		3.30	4	.0	0		14	9	5
HANA AIRPORT 355		77.6	60.6	69.1		83	3	53	20		0	0	0	0	11.87		2.78	4	.0	0		13	8	6
HONOKOMUA 493	A														11.83	7.77	3.47	9	.0	0				
KAANAPALI AIRPORT		76.9	64.3	70.6		82	1	55	22		0	0	0	0	8.19		3.31	9	.0	0		10	6	2
KAMULUI W8 AP 398	R	77.8	59.7	68.8	- 3.3	83	2	48	20		0	0	0	0	7.75	4.61	2.10	3	.0	0		8	5	3
KAILUA 446		75.6	58.8	67.2	- 1.2	81	15+	52	21		0	0	0	0	16.26	7.72	5.40	4	.0	0		12	5	5
KEANAE 346	A														21.80	6.57			.0	0				
KIPAHULU 258															16.03	6.09	3.09	6	.0	0		10	8	8
KULA SANATORIUM 267		65.6	49.8	57.7	- 3.7	75	3	41	26		0	0	0	0	14.77	10.15	3.52	9	.0	0		11	8	5
LAHAINA 361		78.6	62.6	70.6		84	1	56	20		0	0	0	0	7.78	4.99	2.23	9	.0	0		8	5	3
PAIA 406															7.13	3.26	2.00	4	.0	0		10	4	3
WAILUKU 392		78.4M	61.9M	70.2M	- 1.5	83	12+	56	26+		0	0	0	0	7.97	4.18			.0	0				
ISLAND				65.3											12.33				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		77.7	59.9	68.8	- .7	83	10	53	21		0	0	0	0	7.51	2.45	2.24	31	.0	0		12	3	3
MAWAII VOLCNS NP MQ 54		63.5	50.1	56.8	- 1.3	69	15	39	21		0	0	0	0	22.34	10.12	6.10	5	.0	0			8	5
HILO W8 AIRPORT 87	R	79.4	63.4	71.4	.6	87	8	54	23		0	0	0	0	19.66	7.84	8.26	31	.0	0		10	7	4
MUEHUE 92.1	A														10.00	5.87			.0	0				
KAINALIU 73.2		74.1	58.0	66.1		80	31	52	27+		0	0	0	0	8.37	4.41	2.33	7	.0	0		9	4	3
KAMUELA AIRPORT 191		69.3	44.7	57.0		74	10	37	1		0	0	0	0	5.05		1.65	9	.0	0		9	2	1

See Reference Notes Following Station Index
SPECIAL WEATHER SUMMARY ON PAGE 3

CLIMATOLOGICAL DATA

Continued

HAWAII
JANUARY 1969

Station	Temperature													Precipitation								
										No. of Days								Snow. Sleet			No. of Days		
										Max.		Min.											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	80.8	60.4	70.6	.3	90	3	55	25		1	0	0	0	15.58	3.02	4.15	30	.0	0		11	7	4
KEALAKEKUA 26.2	74.7	59.3	67.0		80	31+	54	24		0	0	0	0	7.17		2.14	7	.0	0		7	4	4
KONA AIRPORT 68.3	78.9	62.5	70.7		83	13+	56	26+		0	0	0	0	5.73		2.10	7	.0	0		7	3	2
KUKUIHAELE HIC 199														9.12	2.99	2.35	4	.0	0		14	6	5
KULANI CAMP 79	63.0M	43.1M	53.1M		71	3	32	27		0	0	1	0	17.10		3.84	30	.0	0		11	8	6
MAUNA KEA BEACH 98	80.6	64.4	72.5		87	31	58	24		0	0	0	0	2.95		.78	9	.0	0		8	2	0
PAHALA 21	76.6	60.1	68.4	- .6	82	3	54	21		0	0	0	0	15.79	7.76	6.28	6	.0	0		11	4	3
POHAKULOA 107 A														3.17				.0	0				
PUAKO 95.1 A														3.33		.82	7	.0	0			2	0
PUU WAAWAA 94.1 A														4.38	1.15	1.10	7	.0	0		7	4	1
UMIKOA 118														6.14	- 1.02	2.50	30	.0	0				1
WAIAKEA SCO 88.2														20.90		8.45	30	.0	0		10	7	4
ISLAND			65.7											10.24				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 90° ON THE 3D AT KEAAU 92, HAWAII

LOWEST TEMPERATURE: 21° ON THE 17TH AT HALEAKALA SUMMIT 338.4, MAUI

GREATEST TOTAL PRECIPITATION: 35.40 AT HONOMANU GULCH 341, MAUI

LEAST TOTAL PRECIPITATION: 1.25 AT PUU MALI 113, HAWAII

GREATEST ONE-DAY PRECIPITATION: 16.75 ON THE 6TH AT KANALOHULUHULU 1075, KAUAI

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The month's weather was enlivened by several heavy rains, a damaging windstorm, the second greatest 24-hour rainfall ever observed in the State, a prolonged cold spell, and a widespread fall of hail.

Late on the 2d a slow-moving cold front brought heavy rain especially to central Oahu, where 24-hour amounts of 7 to 10 inches inundated streets, fields, and low-lying areas, causing several persons to be evacuated from their homes in the Ewa Beach-Waipahu area, stranding dozens of cars along the Farrington Highway near Waipahu and Pearl City, and cutting crop production in the Waiawa area by about 50 percent. Shortly before 11 a.m. on the same day, a 14-year-old boy had been drowned when he was swept into a storm drain while playing in a rain-swollen drainage ditch near Pearl City.

The month's most destructive weather occurred on the morning of the 5th, when an "unusually large" thunderstorm, which had been apparently stationary out to sea to the northwest earlier in the day, suddenly swept across the Barking Sands Pacific Missile Range on western Kauai, doing an estimated $350,000 in damage to its facilities. The weather station recorded torrential rain, and at 10:44 a.m. a peak northwesterly gust of 92 m.p.h., which tipped over 3 trailers and moved several others off their foundations; carried away 2 warehouses, whose contents were then heavily damaged by wind and rain; punctured structures with flying debris; and uprooted nearly half of the 50 or so 30-foot kiawe trees, limb-damaging most of the others. Power was knocked out when tin roofing cut the lines; the Weather Bureau's ballon inflation shelter was demolished; and a rectangular door-shaped piece of cast iron, about half a ton in weight, was carried some 500 yards from its repository on a storage dump. Along the west and southwest coasts from Barking Sands toward Kekaha, the winds apparently lessened in intensity since only slight damage occurred there, nor were they unusually strong elsewhere on Kauai.

The thunderstorm was apparently associated with a small surface low pressure system, first noticed about 150 miles south of Honolulu the previous night, which moved directly over Kauai and dropped pressure readings in the islands to near-record lows. For example, the sea-level pressure of 29.47 inches at Honolulu Airport at 2 p.m. on the 5th was the second lowest recorded there since records began in January 1947.

The same storm brought Hawaii its second greatest 24-hour rainfall of record -- the 34.10 inches recorded at Kokee, Kauai, during the 24 hours ending at 7:30 a.m. on the 6th. The heaviest rains appear to have been highly localized (Kanalohuluhulu, only 2 miles to the southwest, received 16.75 inches during the same period, only half of what fell at Kokee) and may have been augmented by the rush of strong, moist, northwesterly winds up the steep-sided canyons that open in that direction.

Shorter-period intensities included 2.56 inches in about 35 minutes at Kanalohuluhulu, 2.15 inches in 25 minutes at Kilauea, and 1.8 inches in about 10 minutes at Power House Wainiha.

On the evening of the 5th rain-loosened boulders rolling down a Palolo Valley hillside on Oahu crashed into a residence, doing an estimated $6,000 in damage. On the 5th and 6th heavy rains in the Kau district of Hawaii Island flooded the Belt Highway between Naalehu and Pahala.

Between the 15th and 26th, several fast-moving cold fronts and an intense low pressure area which remained north of the State for some days pulled polar air down across the islands, ushering in a long record-breaking cold spell that gave residents and visitors alike a taste of Mainland winter. Afternoon temperatures reached the mid-seventies, but nighttime minimums were near 50. Honolulu Airport's 52° and Kahului Airport's 48° on the 20th, and Lihue Airport's 50° on the 22d, were the lowest temperatures ever registered at those stations in their 22, 18, and 17 years of record, respectively. Hilo Airport's 54° on the 23d was its lowest December reading in 22 years of record. At Honolulu Airport, the average minimum temperature for the 8 days of January 20-27 was 54.8°, only .8° above the previous record low of 54°; and the average minimum temperature for the entire month was 61.2°, 4.8° below the average January low, and by far the lowest average monthly minimum ever recorded there.

During the evening of the 21st, strong, gusty winds did scattered damage to homes, garages, and some trees in Piihonua, Puueo, Hamakua, and elsewhere on northeastern Hawaii Island, and knocked Radio Station KPUA off the air when tin roofing slashed through a transmission cable.

The weather finale of the month occurred just after 11 a.m. on the 30th, when a severe thunderstorm first noted off northeastern Oahu battered the eastern third of that island with torrential rains, strong and gusty surface winds, and hail up to half an inch in diameter. The hail was unusually widespread for Hawaii, being reported from scattered points along the windward coast east of Kaneohe, as well as from Aina Haina, Niu and Kuliouou Valleys, and Hawaii Kai in leeward southeastern Oahu. About 3.6 acres of

SPECIAL WEATHER SUMMARY - CONTINUED

lettuce on Koko Head were nearly completely destroyed by the hail and some lighter damage done to crops in the Waimanalo area. The loss, mainly to the Koko Head lettuce, was estimated at $15,000 to $20,000.

In general, monthly rainfall over the State was well above normal everywhere, except for a few gages in eastern, central, and southwestern Kauai, a gage or two on Oahu and Maui, and a few gages on the northeastern slopes of Mauna Kea -- all of which received between 50 and 99 percent of their normals for the month. Scattered reports of 3 to 5 times the monthly mean came from Kauai, Oahu, east-central and southwestern Maui, and from the entire upper Kona area of Hawaii Island. In terms of percentage of normal, rainfall ranged from a low of 35 percent at Hanalei Tunnel in central Kauai to a high of 471 percent on Haleakala Summit, Maui.

STATIONS WITH MORE RAIN IN JANUARY 1969 THAN IN ANY PREVIOUS JANUARY

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest January Total	January 1969
MAUI			
Honokohua	41	11.07 In.	11.83 In.
Honomanu Gulch	34	34.32	35.40
Nakalele	31	11.26	11.54
HAWAII			
Honaunau	31	6.59	7.25

STATIONS WITH LOWER MINIMUM TEMPERATURES IN JANUARY 1969 THAN IN ANY PREVIOUS JANUARY

(10 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Lowest January Temperature	Lowest Temperature in Jan. 1969
KAUAI			
Lihue WBO	18	53°	50° *
Makahuena Point	10	58°	54°
Waiahi Lower	13	49°	44° *
OAHU			
Honolulu WBFO	22	56°	52° *
Makapuu Point	18	58°	56 **
MAUI			
Kahului WBO	14	54°	48 *
Kula Sanatorium	51	43°	41 **
HAWAII			
Hilo WBO	19	55°	54°
Kamuela Airport	15	38°	37° *
Kona Airport	19	57°	56° *

* -- Lowest in any month.
** -- Tied for lowest in any month.

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DAILY PRECIPITATION

HAWAII
JANUARY 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																	
ANAHOLA 1111	A	7.62	*	.90	.05	*	*	3.80	.61		.30						.03	.01	.05	*	*	.45	.14	.01	.02					.01	.08	.27	.89
BRYDESWOOD STA 985	A	9.07	*	2.00	.04	*	*	1.10	.47	T	.18	.01	*	*	.15	.06							.04	.01							.01	.73	4.19
EAST LAWAI 934	A	7.85	*	1.03	.07	*	*	1.49	.60	.01	.37	*	*	*	.15	.06							.01							T	.05	.69	3.02
ELEELE 927	A	4.51	*	1.63	.06	*	*	.97	.40	T	.20	.04	*	*	.11	.18							.03								.01	.17	.71
HALAULA 1110	A	5.67	*	1.00	.09	*	*	2.24	.49		.24							.02		*	*	.33	.09	.03	.09					.01		.24	.80
HALENANAHO 1006	A	7.67	*	1.22	.08	*	*	.95	.55		.25	.07	*	*	.07	.08							.10								.06	.77	3.47
HUKIPO 945		3.57		1.35				.86	.71		.25				.32																.08	
ILILILULA INTAKE 1050	A	11.94	*	2.59	.09	.22	1.00	.07	.84		.11		*	*	.10	.14		.05					.32	.03	.02						.06	2.25	4.05
INIANE WAIMINA PC 1086	A	14.40	*	2.00	*	*	*	12.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KALIHIWAI RES 1131	A	17.51	*	.61	.03	*	*	11.12	.85	.03	.07	.03	*	*	.05	.19	.07	.05	.03	*	*	.19	.26	.02	.02	*	*	*	.04	.03	.11	.69	3.02
KANALOHULUHULU 1075		27.85	.03	3.09	.10	.03	.42	16.75	.88		.05	.12	.11		1.13	.28	.35	.30	.04		1.19		.87	.40	.82	.02	.05	.03				.20	.59
KANEHA RESERVOIR 1092	A	12.20	*	1.25	.15	*	*	5.53	.76		.24					.02	.03	.04		*	*	.84	.14	.02	.06					.08	.04	.48	2.52
KAPAA STABLES 1104	A	4.46	*	1.00	.04	*	*	1.10	.36		.35							.02		*	*	.06	.04	.02	.05					.05	.03	.35	.99
KEALIA 1112	A	4.62	*	.89	.05	*	*	1.47	.34		.32							.02		*	*	.24	.04	.02	.09					.02	.02	.30	.80
KEKAHA 944		3.40	.02	1.03	.02	.05	.28	.31	1.07		.17				.22		.01						.13	.05	.01								.03
KILAUEA 1134	A	11.87	*	.68		*	*	7.79	.42	.01	.05	.06				.15	.05			*	*	.11	.30	.01	.01					.02	.02	.59	1.60
KILAUEA FIELD 17 1135	A	16.84	*	.54	.01	*	*	11.20	.91	.04	.06	.05	*	*	.03	.15	.07	.04	.02	*	*	.10	.25	.03	.06		*	*	.01		.06	.63	2.58
KILAUEA POINT 1133		9.27	.64			1.05	4.28	.30		.03	.10			.30		.05	.02			.05	.10	.08	.04				.02	.05	.33	1.20	.63
KOLO 1033		5.51		.95	.02			.31	3.47	.22		.10			.24								.10		.06						.02	.02
KOLOA 936	A	8.37	*	.99	.10	*	*	1.98	.49	.01	.43	.16	*	*	.22	.07							.05							.02	.05	.60	3.20
KOLOA MAUKA 994	A	11.12	*	2.65	.06	*	*	1.22	.51		.30	.08	*	*	.08	.22							.15									1.12	4.73
KOLOKO RES 1137	A	15.36	*	.41	.01	*	*	10.00	1.02	.01	.12	.01				.09	.10	.02	.03	*	*	.18	.19	.03	.02		*	*	.05	.12	.58	2.37	*
KUKUIULA 935	A	7.85	*	.86	.13	*	*	2.54	.71	.01	.21	.03	*	*	.16	.02							.05							T		.28	2.85
LIHUE VARIETY STA		6.21	.06	1.27	.04	.04	.38	.70	.46		.35	.01	*	*	.05			.02					.03								.03	.62	2.15
LIHUE 1020	A	6.65	*	1.10	.11	*	*	1.10	.41	.01	.50	.01	*	*	.08			.03		*	*	.01	.02							.02	.05	.50	2.70
LIHUE WB AP 1020.1	R	4.97	.78	.10	.14	.29	1.02	.25		.41	.04				.05		.01			T		.01			T				T	.17	1.19	.51
MAKAHUENA POINT 940.1		9.18		.99	.18	.06	.37	.78	.05		.25				.22	.02							.07								.45	5.74
MAKAWELI 965	A	3.76	1.53	.07	.02	.20	.28	.37		.26		.01		.26																.05	.19	.47
MANA 1026		4.43		.89	.03	.02	.31	1.77	.78		.10		.10		.13		.05	.05					.11	.03	.01							.02	.03
MOHIHI UPR CROSS 1083	A	11.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.00	*	*	*	*	*	*	*	*	*	*	*
MOLOAA 1145	A	11.96	*	.55	.07	*	*	8.52	.63		.22		*	*	.03	.08	.10	.03	.01	*	*	.15	.20	.02	.02					.01		.25	1.07
MOUNT WAIALEALE 1047			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NIU RIDGE 1035		5.05		1.03				1.98	1.02		.10				.58	.05							.12	.08	.06							.03
N WAILUA DITCH 1051	A	18.05	*	2.15	.11	*	*	1.20	1.10		.30	.10	*	*	.20	.30		.20					.40	.10	.23						.20	2.00	9.48
PH WAINIHA 1115		32.40		.89	.06		.83	16.70	2.05		T	.18	.03			.91	.13	.15	.01		1.32		.42	.04	T		.02		T	.05	.05	1.83	6.73
PRINCEVILLE RANCH 1117		15.31		.81	.02	.07	1.64	7.50	.38		.02				.31						.05	.16	.24							.02	.06	.94	3.09
PUEMU RIDGE 1040		5.65		1.72				1.42	.97		.12				.67	.19							.18	.07	.20								.11
PUHI 1013	A	7.81	*	1.32	.10	*	*	1.03	.50		.36	.12	*	*	.08	.03							.03								.08	.28	3.86
RESERVOIR 6 1004	A	7.16	*	1.22	.09	*	*	1.19	.59		.36		*	*	.13								.05								.06	.60	2.87
WAHIAWA 930	A	4.29	*	1.14	.07	*	*	1.06	.49	T	.13	T	*	*	.15	.11							.04								T	.16	.94
WAHIAWA MOUNTAIN 990	A	32.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.50
WAIAHI LOWER 1054		11.49	.53	2.33	.04	.06	1.29	.05	.43	.01	.24				.02	.11							.12		.02					.02	.02	1.49	4.71
WAIAHI UPPER 1052		14.97	.05	3.70	.15	.09	1.09		.59		.15		.01			.35							.43	.02							.25	1.78	6.31
WAIAWA 943		3.87		1.00	.04	.03	.32	.44	1.39		.09				.26		.05						.14	.05	.04								.02
WAILUA KAI 1065	A	4.07	*	1.00	.04	*	*	1.18	.32		.40	.01	*	*	.02	.04				*	*	.03										.32	.71
WAIMEA 947		3.43	.21	1.00		.05	.25	.45	.62		.19				.46	.02							.13	T	.01							T	.04
WEST LAWAI 931	A	6.68	*	.90	.09	*	*	1.79	.49	T	.24	.06	*	*	.13	.06							.06							T	.02	.28	2.56
* * * ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	12.46	*	*	7.65	*	*	1.75		.27	1.30	.50	*	*	.04		.04	.05		*	*	.12	.12									.62	
BERETANIA PUMPING STA		8.85	*	.03	4.00	1.04	1.42	.24	T	.25	.78	.38		*	T	T							.02									.37	.30
CAMP 84 807	A	17.21	*	1.17	8.69	*	*	2.88		.40	1.63	1.08	.02	*	.06	.34	*	.14	*	*	*	.30	.38	*	*	.04				.01	.01	.06	
CHURCH COLLEGE LAIE		17.26		5.62	3.10	.77	2.14	.05	.10	1.43	.45		.06	.02	.14		.01	.02			.28		.05								.26	2.56	.20
COCONUT ISLAND 840.1		9.48	*	.18	2.37	1.12	1.57	.13		.15	.80	.48						.01				.01	.11				.05				.07	.32	2.11
EWA PLANTATION 741		12.95		.72	7.30	2.00	.45	.10		.11	1.52	.46	.01			.05		.02			.03		.18										
HELEMANO INTAKE 881	A	21.41	*	*	*	*	*	16.63	*	*	1.81	*	*	*	*	.85	*	*	.35	*	*	*	.24	*	.06	*	*	*	*	.02	*	1.45	*
HOKULOA 725.2	A	19.51	*	*	*	*	11.74	.23	*	*	*	*	2.76	*	*	.43	*	*	*	*	*	.21	*	*	*	*	*	*	*	.14	*	*	*
HONOLULU DBSERV 702.2		11.94		.17	6.55	2.34	.51	.16		.25	1.45	.31	T					.02				.01	.14									.03	
HONOLULU WBFC 703	R	8.20	.04	1.44	3.91	.29	.61	T	.29	1.11	.38	T			T		T	T			.03	.03	T	T	T					T	.07	T	T
HONOLULU SUBSTA 704		8.60	.05	1.30	3.75	.95	.60		.30	.90	.44																				.15	.14	.02
H S P A EXP STA 707		9.33		.04	3.75	1.40	1.27	.19	.02	.49	.86	.37			.01								.01								.01	.55	.36
KAHANA 1042	A	29.84	*	1.98	*	*	*	11.94	*	*	*	*	*	*	3.48	*	*	*	*	*	*	.58	*	*	*	*	*	*	.30	*	*	*	7.56
KAHUKU 912	A	12.12	*	1.21	3.53	*	*	3.10		.08	1.23	.24	*	*	.02	.63	.04	.03		*	*	.37	.15		.05							.18	1.26
KAILUA FIRE STA 791.3		11.58		.09	4.20	.80	2.70	.02	1.40	1.02		.20	T			T	.01				T				T	T	.01				.68	.45
KALIHI RES SITE 777		13.54	.10	2.90	3.20	1.10	.98	.02	.08	.86	.52	.02									.02	.14								.66	1.88	1.06
KANEOHE MAUKA 781		15.76		.25	6.66	1.89	1.30	.22		.16	.95	.42				.90							.16		.50		.01			.10	.70	.33	1.01
KANEOHE RANCH 838	A	14.87	*	.40	5.35	1.73	*	1.90	.03	.80	1.60	.54	T	*	T	.01	*	T					.01	T							.06	.24	2.20
KAPALAMA 773	A	7.79	*	.36	2.70	*	*	2.00		.95	.15																					1.47	
KAWAIHAPAI 841	A	9.45	*	1.95	4.12	*	*	1.00	.20	.20	.60	.08	*	*	.10	.78	.05	.01		*	*	.01			.02		*	*	.01			.32	
KAWAI 1K1 INTAKE 880.2	A	19.46	*	*	*	*	*	*	*	*	*	9.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.00
KEMOO CAMP 8 855	A	10.65	*	2.55	3.82	*	*	1.50	.02	.14	.97	.32	*	*	.02	.40		.04		*	*	.16	.28	.01	.11		*	*	.03	.01		.26	.01
KOOLAU OAM 833		20.51		5.16	7.13	.89	.38	.02	.02	.38	2.04	1.37	.02	.01		.42	.04	.21			.15		.36		.05		.02			.31	1.53	
LUALUALEI 804		12.55	*	1.45	6.62	*	*	1.15	*	.35	1.08	1.21	*	*	.01	.30		.02		*	*	.01	.10									.25	
LUALUALEI WTR TUNNEL	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LUNALILO HOME 724.2		4.69	*	*	*	*	*	*	*	*	*	*	2.25			.12																2.30
MAKAHA KAI 796	A	9.90	*	1.25	4.84	.59	*	.50		.30	1.10	.47	*	*	.22	.22	.05	.03					.33								*	*	*
MAKAHA VALLEY 800.1	A	9.67	*	1.10	4.72	.62	*	.55	*	.36	1.13	.53	*	*	*	.30	.02	.04					.30								*	*	*
MAKAPUU POINT 724		9.90		.10	3.58	.53	1.81			.43	.58	1.43				.11		.06														.15	1.12
MANOA 712		11.08		.02	3.48	1.12	1.16	.16	.02	1.06	.76	.31		T		.04			.03					T			T				.05	1.86	1.01
MANOA TUNNEL 2 716		15.00		1.82	2.58	1.00	.90	.02	1.46	.62	.58	.02																			2.30	2.50	1.20
MOANALUA 770		9.16		.07	4.88	*	1.57	.11		.27	1.17	.26									T		.07								.03	.63	.10
NUUANU RES 4 783		10.20	.04	2.48	1.88	1.26	.82		.44	.52	.40			.02							.04	.06					.02				.56	1.28	.38
NUUANU RESERVOIR 5 775	A	13.63	*	.32	4.50	*	*	3.62	T	.24	1.03	.25					.02						.05								.43	1.93	1.24
OPAEULA 870	A	11.92	*	*	*	*	*	8.57	.19	.14	1.16	.22	*	.02		.40	.02	.13		*	.26							*	.03				.60	.18
PALOLO VALLEY 718		14.34		1.78	2.52	1.10	1.06	.02	.64	.38	.84				.04							.02									1.80	3.50	.84
PAUOA FLATS 784		18.04		3.00	3.36	1.14	.90	.02	.76	.70	.58				.06		.02					.04									3.50	2.44	1.52
PORTLOCK ROAD 724.4		11.54	.06	2.13	1.04	.76	.04	1.70	.44	.35	2.04	.04	.02						.01	.01				.02				.02	.02	.03	.05	.21	.93	1.62
PRI WAHIAWA 820.2	A	16.67	*	*	10.91	*	*	1.11		.32	1.61	1.46	*	*	.01	.18	T	.12	T	*	*	.15	.36		.15								.28	.01
PUNALUU 884	A	18.09	*	1.05	7.50	*	*	4.28	.18	.17	1.78	.57	*	*	.04	.10	.05	.02		*	*	.28	.12		.18							.05	.50	1.22
PUNCHBOWL CRATER 709	A	9.49		.06	3.85	1.48	1.45	.21	.02	.34	.76	.37				.02							.02								.01	.50	.40
ST STEPHENS SEM 788		14.14		.25	5.27	1.36	1.25	.17	.07	.92	.96	.46	T			.05	T				T		.14		.05	.01	T				.03	.44	2.71
TANTALUS 2 780.5		13.08		.09	4.15	1.43	1.29	.18	.02	.53	.75	.32			.01								.05								.02	2.62	1.62
UNIV OF HAWAII 713	A	8.75	*	T	3.20	*	*	2.26	.05	.31	.91	.33	*	*	.06	.04	T						.02	T							.04	.54	.29
WAHIAWA OAM 863	A	14.14	2.38	6.38	*	*	*	1.30	.01	.20	1.44	.86	*	*	.07	.30		.13	.01	*	*	.14	.28	.05	.16	.01	*	*	.01		.01	.37	.03
WAIAHOLE 837	A	21.01	*	1.06	10.20	*	*	2.00		.49	1.48	.17				.31	.04	.12					.35									.04	1.89	2.86
WAIALAE KAHALA 715		8.20		.04	2.85	1.28	1.37	.04	.03	.67	.51	.89	T			.10							.03			T						*	.15	.24
WAIALUA 847	A	7.94	1.13	3.78	*	*	*	1.24	.18	.07	.83	.08	.02			.38	.04	.01			T		.04	T	T	T	T			T	T	.18	*
WAIANAE 798	A	14.37	*	1.66	5.05	.67	*	.65		.26	1.25	.75		*	1.75	1.75	.09	.04					.45							*	*	*	*
WAIANAE MAUKA 803	A	17.83	*	*	*	10.30	*	*	*	*	*	*	5.03	*	*	*	*	*	*	.76	*	*	*	*	*	*	.47	*	*	*	.57	*	.70
WAIAWA 836	A	19.92	*	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.92
WAIKANE 885	A	24.04	*	3.96	*	*	*	10.20	*	*	*	*	*	*	3.16	*	*	*	*	*	*	.52	*	*	*	*	*	*	.32	*	*	*	5.88
WAIKIKI 717.2		8.30		.02	3.10	1.25	1.14	.15	.04	1.15	.56	.45	.01			.13							.04	T								.06	.20
WAILUPE RESV. 723.2	A	9.92	*	.04	*	*	*	*	*	*	7.30	*	*	*	*	*	*	.47	*	*	*	*	*	*	.02	*	*	*	*	*	*	.38	1.71
WAIMANALO 794	A	12.08		.21	3.70	.78	2.50			.61	.63	.66				.04	.03						.06						.03			.33	2.50
WAIMEA 892	A	10.07	*	1.25	3.60	*	*	2.55	.07	.15	1.05	.20	*	*	.01	.48	T	.10					.02	T	.04							.50	.05
WAIPAHU 750	A	13.76	*	1.08	9.10	*	*	1.12		.14	1.52	.35	*	*	.03	.10		.04		*	*	.20	.08		T							T	
WILHELMINA RISE 721		9.22		1.50	*	*	3.92		.68	.40	.60				.04	.02														.52	.82	.72

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII
JANUARY 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF MOLOKAI																																	
KALAUPAPA 563	A	6.42	*	*	.06	.13	*	*	.32	.90	3.52	*	*	*	*	.13	.12	*	*	.32	*	*	*	*	*	*	.58	*	*	*	.34	*	*
KAUNAKAKAI 936	A	7.44			3.26			1.67		.70		1.81																					
KEUNELELE PENS 551	A	8.27						4.52									3.75																
KUALAPUU 534	A	11.52		2.50	*	*	*	1.64	.03	.80	3.61	.73				.04	.14	.08	.01		*	.84	.04		.09	.09	*	*	.46		.02	.40	
MAPULEHU 542		9.93		2.03	.58	1.46		.18	.95	3.00	.67				.07		.06							.10					.07	.63	.06	.07
MAUNALUA 511	A	9.22	*	*	3.10			1.07	.03	.35	2.84	.82				.32				*	.20		.23		.03		.15				.03	.05
MOLOKAI AP 524		10.03			2.55	.40	1.22		.25	.41	3.19	.90				.15	T	.09	.01		.36		.04		.22	.04	.12		.03		T	.05	T
PUUOHOKU RANCH 542.1		12.45	.06	1.66	.98	1.32	.03	.34	1.85	4.25	.29					.03	.12	.04	.02	.15		.10	.02	.90		.09				.15	.04	.01
WAIKOLU 540	A	17.34						5.87							5.80							2.47							3.20			
ISLAND OF LANAI																																	
KANEPUU 690	A	7.48	*	T	*	*	*	*	*	4.42	*	*	*	*	*	*	*	2.58	*	*	*	*	*	*	*	.48	*	*	*	*	T	*	T
KAUMALAPAU HARBOR 658	A	6.41			.82	*	*	1.84	.13	.67	1.59	.96								*	*	.03	.37										
LANAI CITY 672	A	11.16		T	.80	1.34	1.49	.43	.26	1.27	3.84	.72	.05	T	T	.18	T			T			.43	T	.08	T	.22				.05		
LANAIHALE 684	A	6.74	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.40	*	*	*	*	*	*	*	*	*	*	*	*	*	.16	T	
MANANA 694	A	10.61	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.18	*	*	*	*	*	*	*	*	10.61
MALAOEA 676	A	10.28	*	T	*	*	*	*	*	5.66	*	*	*	*	*	*	*	3.90	*	*	*	.72		*	*	*	*	*	*				
WAIAKEAKUA 685	A	17.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.20	*	*	*	.04	.29	*	*	*	*	*	.08	*	*	*	.03
ISLAND OF MAUI																																	
AUWAHI-252	A	12.34									10.70						1.05							.59									
MALEAKALA 8 E S 434	A	13.90	*	*	.14	*	*	4.23	.99	.41	2.16	.32				.11		.54			.04	.06	.12		.12	.03	.24					3.20	1.19
MALEAKALA RANCH 432	A	10.75	*	*	.17	*	*	4.21	1.22	.72	1.89	.39	*	*	.04	*	*	.34	*	*	*	.12	.15	*	*	*	*	*	*	*	*	1.04	.22
MALEAKALA RS 338		15.03			.40	3.30	2.00	.82	1.70	.87	2.20	.92				.11		.24			.06		.85		.20	.04				T	1.18	.14
MALEAKALA SUMMIT 338.4		18.14			.58	1.89	3.75	2.02	2.05	2.15	3.32	.66	.02								T		.40	.30	T				T		.90	.10
MALIIMAILE 423	A	10.11			.16	*	*	4.30	.86	1.04	1.74	.32				.05		.11	.03		*	.03	.04		.10	.01	.30				.87	.11
MAMAKUAPOKO 485		8.34			.22	2.44	1.18	.22	.54	.54	1.26	.12				T		.03	T			.24	.04	T	.01	.01	.17			T	1.18	.14
MANA 354		11.87			.46	2.50	4.07	*	1.52	.63	1.07	.08															.23				.91	.40
MANA AIRPORT 355		11.07			.76	2.78	1.70	.42	1.38	.54	1.08	.07	.32					.11			.02					T	.27	T	T		.12	1.18	1.12
MANAHULI 281		16.74			.40	2.31	1.88	3.85	1.75	1.27	1.15	.14	T			.05	.20					.05									1.69	2.00
HOLUA CABIN 259.5	A	22.60	*	3.00	*	*	*	*	*	*	*	19.00	*	*	*	*	*	*	*	*	*	.60	*	*	*	*	*	*	*	*	*	*	*
HONOKOHAU 480	A	9.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.82	*	*
HONOKOHUA 493	A	11.83			.62	*	*	3.28	.23	.80	3.47	.57	*	*	.02	.05		.02	.02	*	*	.12	.28			.02	*	*	.10		.02	1.83	.38
HONOMANU GULCH 341	A	35.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	35.40
KAANAPALI AIRPORT		8.19			.70	.84	1.32	.20	.19	.60	3.31	.62				.03					.02		.11	T	T	T	.06				.19		
KAHOMA INTAKE 374	A	15.13	*	*	*	*	*	*	*	*	*	14.00	*	*	*	*	*	*	.28	*	*	*	*	*	*	*	*	*	.85	*	*	*	*
KAHULUI #8 AP 398	R	7.75		T	2.10	.35	1.07	.35	1.77	.89	.79				.02		.03	.01			.02	.01	T	T	T	.09	.17			T	.08	T	
KAILIILI 436	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KAILUA 446		16.26			.12	5.40	1.06	.07	.40	.15	1.52	.26						.15	.05		.01	.05	.02		.13	.02	.15				.04	4.80	1.86
KAUAULA INTAKE 375	A	11.54	*	*	*	*	*	3.27	*	*	*	*	*	*	7.89	*	*	*	*	*	*	.17	*	*	*	*	*	*	.21	*	*	*	*
KEAHUA 410		7.75		T	.22	1.98	1.00	.50	.65	.83	1.61	.40			.01	.02		.04	T			.05	.01		T		.27				.16	T	
KEANAE 346	A	21.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	21.80
KEAWAKAPU BEACH 260.2		10.13			.23	1.89	1.60	1.12	.65	1.91	2.01	.58				.06							.08										
KIHEI 311		9.17	*	*	.32	*	*	3.62	*	*	*	5.10				.04			.01				.05			T			.03				
KIPAHULU 258		16.03			.44	1.67	1.46	3.09	1.68	1.03	1.68	.19				.06															1.94	2.79	
KULA HEIGHTS 323.2		10.64			.17	2.58	1.32	.33	1.56	.29	2.51	.50			.02	.58		.35			.05		.29			.04	.05						
KULA SANATORIUM 267		14.77			.20	2.21	1.15	2.70	1.85	.97	3.52	.61			.05	.87		.10			T		.49		.05								
LAHAINA 361		7.78			.37	1.68	1.35	.16	.27	.93	2.23	.67				.01					.06		.02		.02						.01		
LAUNIUPOKO INTAKE 376	A	14.20	*	*	*	*	*	*	*	*	10.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.40
LAUNIUPOKO VILLAGE 372	A	9.33			1.25	1.63	1.52	.42	.30	1.48	1.80	.64											.20		.05						.04		
LUPI UPPER 442	A	18.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.20
MAHINAHINA 466	A	12.03			1.08	1.55	1.42	.50	.27	1.40	2.95	.67				.10					.13		.15		.05		.16				1.50	.10
NAKALELE -FLD 60-497	A	11.54	*	*	*	*	*	3.88	*	*	*	*	*	*	3.96	*	*	*	*	*	*	.14	*	*	*	*	*	*	.60	*	*	*	2.96
OLINDA 332	A	12.34	*	T	.20	*	*	4.16	1.17	.21	2.36	.48	*	*	.01	.50	.01	.71	.06	*	*	.26	.30	.01	.11	.11	*	*	.07	T		1.46	.15
OLUWALU 296		8.10			.65	1.33	1.45	.50	.37	1.45	1.55	.62											.18										
OLUWALU GULCH 377	A	6.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.50
PAAKEA 350		22.13			.21	4.75	.70	.57	1.30	1.30	2.06	.14						.10				.14				.04	.19				.03	6.37	4.23
PAIA 406		7.13			.28	2.00	1.13	.35	.42	.32	1.40	.11				.01		.01				.09	.02		T		.42				.55	.02
PANILEIHULU 259.2	A	11.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.25
PAUWELA 490	A	10.49			.17	*	*	3.95	.51	.94	1.12	.12					.02	.03		*	*	.33	.07		.03		*	*	.22		.03	2.53	.42
POHAKEA BRIDGE 307.2	A	8.75	*	*	.58	1.36	1.08	.44	.46	2.00	1.40	1.25	*	*	*	.02	*	*	*	*	*	*	.10	*	*	*	*	*	.06	*	*	*	*
POLIPOLI SPRINGS 267.2	A	25.28	*	*	*	*	*	*	*	*	*	*	*	23.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.28	*
PUUMOKAMOA 2 343	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUU KUKUI MAKAI 472	A	13.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.40	*	*
PUUNENE 396		8.88			.41	*	*	3.68	.46	1.63	1.70	.61			.02	.01						T	.02				.33				.01		
SPRECKELSVILLE 400.2		7.91			.28	1.84	1.27	.34	.50	1.05	1.77	.21			T	.02		.04	.05			.04	.01				.30				.19	T	
TWIN GATES 261.3	A	11.40	*	*	*	*	*	*	*	*	*	*	*	*	*	11.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
UKULELE 333	A	23.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23.08
UKUMEHAME 301	A	9.43			.60	1.40	1.45	.72	.35	2.60	1.53	.70											.08										
ULUPALAKUA RANCH 250		13.17			.18	2.25	2.15	1.22	.93	.84	4.07	.80				.35						.02	.36										
WAIHOLU 364	A	9.64			.92	1.58	1.44	.27	.32	.94	2.51	.87				.03					.10		.07		.05		.05				.20	.29
WAILEHU CAMP 484	A	8.82	*	*	.95	1.49	1.23	.62	.34	1.61	1.58	.35	*	*	*	.05	*	*	T	*	*	.02	.02	*	.04	*	*	*	.20	*	.08	.24	*
WAIMEE VALLEY 482	A	9.67	*	*	1.25	1.68	1.33	.48	.42	1.53	1.67	.30	*	*	*	.02	*	*	T	*	*	.10	.12	*	.03	*	*	*	.23	*	.03	.48	*
WAIKAMOI 449	A	18.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.70
WAIKAMOI OAM 336	A	27.22	*	T	.24	*	*	5.93	.79	.45	2.00	.46	*	*	.01	.09	T	.62	.02	*	*	.54	.27	T	.22	.13	*	*	.13	.01	.05	9.32	5.94
WAIKAPU 390	A	8.61	*	*	.61	1.65	1.13	.48	.41	1.56	1.47	.97	*	*	*	.02	*	*	.03	*	*	*	.04	*	*	.08	*	*	.20	*	*	T	*
WAILUKU 392		7.97				2.11	1.18	.25	.35	1.24	1.47	.57	.02			.03	.02	.01	.02		.03	.03	.05	.03	.05	.04	.36	T			.01	.09	.01
WAIOHAI RANCH 256	A	9.93	*	*	.69	*	*	4.74	*	*	*	3.95																		*	*	*	.55
ISLAND OF HAWAII																																	
AHUA UMI 75	A	6.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.80
AWINI 182.1	A	18.42	*	*	7.60	*	*	*	1.69	.20	1.26	.20	*	*	.03	*	*	.11					.35				*	*	.26		.21	3.89	2.62
EAST HONOKANE 183.2	A	21.42	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	21.42
HAINA 214		7.51			.03	1.09	.22	.38	.12	.08	.23	.07		.02				.40	.03			.48	.10				.21	.04			.12	1.65	2.24
HAKALAU 142		10.92			.02	.26	.50	.30	.47	.06	.09	.29				.35					.01	.07				.12				.07	4.00	4.66
HALEMAUMAU 52	A	20.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20.40
HALEPIULA 117	A	3.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.05
HALEPOHAKU 111	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAWAII VOLCNS NP HQ 54		22.34	*	T	.17	.82	6.10	4.64	3.10	.41	.51	.56	.01	.01				.36	.01	.05	.01	.09	.29	.02	.16	.01	.04	T	*	*	.36	2.82	1.79
HAWI 108	A	8.41			.13	*	*	3.63	.82	.08	1.85	.10				.07			.02				.05				*	*	.08		.04	.70	.84
HILO WB AIRPORT 87	R	19.66			.64	.54	2.00	.98	.07	T	.40	.24			T																.13	1.23	5.17	8.26
HOLUALUA 70	A	17.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.20	*	*
HOLUALUA BEACH 68	A	6.12	*	*	*	*	*	*	*	*	6.12																						
HONAUNAU 27		7.25	.04	.02	.06	1.22	1.55	1.20	1.34	.22	1.36	.03	.02	.19																			
HONOHINA 137		11.99				.70	.38	.13	.60	.09	.02	.36	.03									.16	.05			.09				.08	3.90	5.40
HONOKANE 181.1	A	20.06	*	*	*	*	*	11.03	*	2.17	1.25	.31				*	.07	.09					*	.43			*	*	.27		.29	2.78	1.37
HONOMU MAUKA 138		23.38			1.15	1.32	.31	.51	.09	.04		.43										.07								.29	10.87	8.30
HONUAPO 71	A	12.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.20	*
HUALALAI 72	A	3.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
HUEHUE 92.1	A	10.00	*	*	2.30	*	*	*	5.50	*	*	*	*	*	*	*	*	2.20	*	*	*	*	*	*	*	*	*	*	*	*	3.80	*	*
KAALA 1K1 12	A	15.66			1.00	.47	7.60	2.98	1.37	.27	.75	.32						.13		T		.05			.23			.15	.02			.18	.14
KAAMALOA 29	A	6.99	*	*	*	*	*	3.10	2.10	.23	1.33	*	*	*	.18								.05										
KAINALIU 75.2		8.37		T	.40	.37	2.09	.91	2.33	.20	1.76	.20											.11										
KALAPANA NO 1 67.8		20.94	*	*	*	*	6.62	4.51	*	*	*	*	1.07	*	.03		*	*	*	T	*	.06									.05	*	8.60
KAMAOA NO 2 5	A	10.31	*	*	*	*	5.04	2.40	*	*	*	*	*	*	*	*	*	*	*	2.80	*	*	*	*	*	*	.07	*	*	*	*	*	*
KAMUELA 192.2		6.89			.10	.64	.19	1.20	.62	.26	.06	1.95	.07			.32	.10	.09					.97	.05			.02				.05	.18	.02
KAMUELA AIRPORT 191		5.05			.09	.40	.46	.78	.43	.18	1.65	.48	T			.30	T	.02	T	T	T	T	.14	.04	.02	T	T				.01	.03	.02
KAPAHALA RANCH 36	A	19.35	*	*	.20	1.80	13.50	2.56	*	*	*	1.21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.08	*	*	*	*	*
KAPOHO LANDING 93.5	A	21.72	*	*	3.01	*	*	*	*	*	*	12.00	*	*	*	*	*	*	.10								*	*	*	*	*	*	6.61

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		20.10			.03	1.03	1.65	.33	.91	.08	.02	.78																		.33	6.16	8.75
KAWAINUI LOWER 193	A	15.68	*	*	.34	*	*	*	*	*	*	10.41	*	*	*	*	*	*	.13	*	*	*	.01	*	*	.92	*	*	*	*	*	*	3.88
KEAAU 92		15.58			.13	.89	3.62	.73	1.05	.02	.11	.63	.16																	.25	4.15	3.84
KEALAKEKUA 26.2		7.17		T	.05	.42	1.47	1.25	2.14	.22	1.39	.19																				T
KEHENA 181.2	A	19.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	*	*	*	*	*	*	*	*	*	19.09
KIDLAKAA A & F 6	A	12.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.30	*
KIPA 89.2	A	22.82	T		.03	1.04	1.11	1.08	.56	.14	.03	.67	T	T																.46	6.60	11.10
KOHALA 179.1	A	7.83			.09	*	*	3.80	.75	.06	1.09	.10				.05							.03				*	*	.02		.01	.85	.98
KOHALA MAULILI 176	A	10.20			.08	*	*	4.88	.67	.09	.73	.39				.26							.07	.01	.01		*	*	.01		.01	1.57	1.42
KOHALA MISSION 175.1		9.56			.15	2.56	.23	1.46	.71	.10	1.29	.11				.14	T	T	T				.08	T			.01	.02	T		.03	1.31	1.36
KOIAWE LOWER 196	A	11.94	*	*	.36	*	*	*	*	*	*	8.69	*	*	*	*	*	*	.08	*	*	*	*	*	*	.56	*	*	*	*	*	*	2.25
KONA AIRPORT 68.3		5.73	T		.05	.40	1.04	.69	2.10	.40	.45	.09	T			.06							.45	T									
KONA VILLAGE 93.8		5.18		.45	.50	.60	.75	1.75	.10	.48	.15											.40										
KUKAIAU 222		19.14			.01	6.01	.37	.08	.07	.37	.07	.05	.01					T				.77	.42			.01		.02	.01	.12	4.28	6.47
KUKUIHAELE HIC 199		9.12			.07	2.35	.14	.53	.21	.09	.28	1.20						.27	.02			.20	.11				.16	1.02			.15	1.27	1.05
KUKUIHAELE MILL 206	A	6.74			.04	*	*	1.89	.21	.05	.05	1.18						.85	.02	*	*	.17	.11				*	*	.20		.18	1.22	.57
KULANI CAMP 79		17.10				.82	3.38	1.42	2.25	.13	.10	.81	2.01																		.33	3.84	2.01
KULANI MAUKA 76	A	5.94			.70	1.14	.86	.50	.08	.27	.85																			*	*	1.27	.27
KULANI SCHOOL SITE 78	A	7.28	*	*	*	*	*	*	*	*	*	*	5.25	*	*	*	*	.03									*	*	*	*	*	*	2.00
LANIHAU 68.2		7.67			.05	.40	1.53	.98	2.42	.40	.94												.95										
MANUKA 2	A	8.11	*	.06	.12	*	*	5.90	.10	.80	.91	T	*	*	.22	T																	
MAUNA KEA BEACH 98		2.95			.09	.26	.31	.40	.57	.05	.78	.18				.10							.21										
MAUNA LOA SLOPE OBS		5.29		.06	.40	.93	1.17	1.17	.76	.13	.58	.09																		T	T		
MIDDLE MOLOALOA 68.1	A	.88	*	*	*	*	*	*	*	*	.78	*	*	*	*	*	2.20	*	*	*	*	*	*	.10	*	*	*	*	*	*	*	*	*
MIDDLE PEN 147.1	A	6.52	*	*	*	*	*	*	*	3.90	*	*	*	*	*	*		*	*	*	*	*	.42	*	*	*	*	*	*	*	*	*	*
MOAULA 18	A	14.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.40
MOUNTAIN VIEW 91		21.81			.15	.99	4.16	.84	1.14	.02	.16	.78	.20						.03						.01						.24	6.14	6.95
NAALEHU 14	A	12.66			.78	.69	4.58	3.86	1.07	.21	.90	.20					.02	.03		*	*	.01			.02	T	*	*	.15			.03	.11
NAPOOPOO 28	A	4.64	*	*	*	*	*	1.56	*	*	*	*	*	*	3.05								*	*	*	*	*	*	.03				
NAULU FOREST 38.6		23.49	*	*	*	*	8.65	6.60	*	*	*	*	1.85	*	.01		*	*	*	.21	*	.02									.05	*	6.10
NIULII 179	A	7.99	*	.20	.15	*	*	3.22	.37	.10	.74	.09				.03		.02					.07				*	*	.05		.02	1.32	1.61
OOKALA 223		14.78				1.88	.12	.25	.35	.10	.03	.22	.10					T	.03			.99	.23			.04		.02			.10	4.15	6.15
OPIHIHALE 2 24.1		6.31		.10	.67	1.44	1.43	1.18	.24	.98	.16	T	T									.11	T										
ORCHID LAND EST 91.5	A	18.45	*	*	.52	*	*	*	*	*	*	10.77	*	*	*	*	*	*	.17								*	*	*	*	*	*	6.99
PAAUHAU 217		7.21			.01	.88	.25	.26	.07	.19	.09	.08		.03				.39	.01			.81	.10				.16	.03			.11	1.51	2.23
PAAUILO 221		15.51			.03	4.78	.36	.07	.05	.25	.05	.02	.01										.89	.27		T		.03	T		.07	3.20	5.43
PAHALA 21		15.79			.36	.34	5.05	6.28	1.62	.14	.67	.37	.02	.08				.06	.02	.02			.22			.04		.01	.05			.17	.27
PAHOA 65		20.10			.17	1.90	7.73	1.57	2.26	.15	.18	.49	.06						.03							.06					.32	2.65	2.53
PAKAO 37	A	17.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.70
PAPAIKOU 144.1		13.31			.01	.77	.91	1.08	.79	.07	.01	.43																		.27	3.11	5.86
PAPAIKOU MAUKA 140.1		24.62			T	.85	1.14	.75	.86	.09	.02	.44			.01															.41	7.18	12.87
PEPEEKEO MAKAI 144		8.23			.05	.32	1.20	.51	.48	.06	.11	.33	.06										.01			.05					.16	2.33	2.56
PIIHONUA 89	A	32.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	32.50
POHAKULOA 107	A	3.17	*	*	.08	*	*	1.67	.13	*	*	1.21											.07	*	*	.01							
PUAKO 95.1	A	3.33	*	*	.09	.35	.23	.47	.82	.07	.70	.31	.01	*	*	.05	T	T	*	*	*	*	.22	.01									
PUU KIHE 120	A	3.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.40
PUU LAAU 102.1	A	3.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.62
PUU LEHUA 73	A	8.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.00
PUU MALI 113	A	1.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.25
PUUOKUMAU 167	A	11.94			.18	*	*	5.62	1.19	.12	2.38	.34				.36	.01	.02					.02				*	*	.05		.03	1.08	.54
PUU OO 82		7.85			.06	1.12	1.55	.39	.14	.10	.09	.55	.01																		.29	2.25	1.30
PUU WAAWAA 94.1	A	4.38			.04	.35	.45	.49	1.10	.09	.65	.64				.02		.05					.50										
SADDLE ROAD 1 84	A	25.70	*	*	.90	*	*	*	*	*	*	4.00	*	*	*	*	*	*	.80								*	*	*	*	*	*	20.00
SOUTH POINT CORRAL 3	A	3.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.11
UMIKOA 118		6.14		.02	*	.83	.48	.05	.12	.14	.10	.08	*	*	.03							.12	.99			.02	*	*	.16	*	.05	2.50	.45
UPOLU POINT USCG 159.2		8.60			.12	1.93	1.10	.73	1.47	.13	1.75	.09	.02			.08					.01		.06	.01			T					.51	.59
WAIAKEA SCD 88.2		20.90			.05	.90	1.84	1.00	.82	.10	.10	.66																		.20	8.45	6.78

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME 2 AM	8 AM	2 PM	8 PM	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	26	1.7	7.0	24	NW	19	79	74	64	77	2	1	3	3	1	3	13	35	6.9
HONOLULU, OAHU, WBFC	35	3.3	10.3	28	NE	30+	85	87	65	78	11	4	3	1	2	1	22	61	5.8
KAHULUI, MAUI, WB AIRPORT	6	0.6	10.3	29	E	31	88	86	64	77	6	7	3	2	2	1	21	63	5.5
LIHUE, KAUAI, WB AIRPORT	33	2.4	9.1	25	E	29	84	85	68	80	3	4	6	2	2	0	17	50	5.5

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
JANUARY 1969

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	63	61	62	60	60	58	60	62	62	61	64	64	58	57	54	53	55	59	55	57	49	48	52	56	58	62	62	62	60	63	63	58.7
	MIN	48	53	48	49	53	50	49	45	51	42	48	48	48	49	50	48	45	46	46	33	44	43	45	44	44	45	44	48	50	53	54	47.2
KILAUEA POINT 1133	MAX	84		81	77	72	70	79	80	81	79	81	81	81	75	75	74	78	77	73	78	73	74	75	78	76	79	79	76	72	75	73	76.9
	MIN	70		68	65	63	61	66	67	65	67	70	67	69	65	64	64	64	63	60	66	63	65	64	62	61	61	61	67	66	60	66	64.7
LIHUE WB AP 1020.1	MAX	78	78	73	72	74	72	75	75	74	76	77	75	76	74	73	71	71	72	70	72	70	70	71	71	71	71	72	74	71	72	75	73.1
	MIN	71	68	64	65	62	59	58	59	61	57	58	59	57	55	57	59	52	53	57	51	52	50	51	54	53	53	56	61	67	67	69	58.5
MAKAHUENA POINT 940.1	MAX	79	81	77	80	77	76	76	81	77	76	80	82	82	78	76	80	78	78	77	75	77		75	75	73	80	76	78	74	77	75	77.5
	MIN	69	61	65	67	65	60	61	61	63	61	61	65	65	63	60	59	55	63	58	57	57		61	55	54	58	57	64	69	66	65	61.5
MANA 1026	MAX							81	80			80	80	80	76	75	75	74	73	71	73	77	70	72	73	72	71	73	78	79	78	81	75.7
	MIN							56	63			63	62	62	67	66	62	62	59	64	55	57	54	59	57	57	59	56	57	59	63	65	60.2
NIU RIDGE 1035	MAX	76	75	78	77	78	78	76	74	76	75	76	75	74	74	76	74	75	73	71	70	70	70	67	68	70	70	70	73	75	77	78	73.8
	MIN	60	59	60	59	60	60	60	59	57	58	60	59	58	57	60	59	60	58	56	55	54	51	51	52	53	55	54	55	56	56	55	57.0
WAIAHI LOWER 1054	MAX	74	74	74	73	72	72	72	75	76	75	74	75	77	77	77	74	75	74	75	72	72	70	72	71	72	73	74	74	73	68	69	73.4
	MIN	60	60	59	59	57	52	52	52	59	50	52	55	58	49	52	59	52	46	54	44	48	48	44	48	45	45	46	54	59	64	61	53.0
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	81	79	73	74	78	80	76	73	72	80	81	80	77	79	78	77	75	78	75	77	75	74	75	76	76	77	77	78	76	79	80	77.0
	MIN	62	60	66	63	64	60	60	66	66	59	60	61	62	61	57	59	56	55	58	51	54	53	52	52	54	53	54	59	62	69	70	59.3
HONOLULU WBFO 703	MAX	80	78	74	73	76	77	74	74	73	80	80	79	77	79	78	75	75	77	76	75	76	74	75	77	78	74	78	80	78	81	82	76.9
	MIN	71	70	65	63	64	61	61	67	63	59	61	63	63	61	61	59	59	59	60	52	57	54	55	55	56	55	54	63	68	68	70	61.2
HONOLULU SUBSTA 704	MAX	77	78	74	74	77	74	72	75	74	79	78	79	76	76	76	73	75	75	73	74	72	71	73	74	76	73	73	75	73	75	77	74.9
	MIN	72	68	65	63	66	66	66	68	65	64	65	66	65	64	64	63	65	64	64	59	60	60	60	61	61	59	61	66	68	69	70	64.4
KAHUKU 912	MAX		83	74			79	79	77	73	72			79	78	78	76	74			76	76	72	72	73			75	75	76	73	75	75.7
	MIN		62	67			63	61	62	64	59			59	65	65	63	64			53	54	62	60	60			59	58	68	67	66	61.9
KANEOHE MAUKA 781	MAX	79	81	78	75	72	71	76	74	75	73	79	78	78	77	77	76	74	75	78	74	72	76	72	74	75	74	73	75	75	71	73	75.2
	MIN	68	65	64	65	65	61	63	65	67	64	64	64	64	64	60	60	65	64	64	56	57	59	58	60	55	59	59	63	64	67	70	62.7
LUALUALEI 804	MAX		80	75	78	74	77	78	77	75	74	79	79	80	76	78	77	75	76	76	77	75	75	73	74	77	76	76	77	77	75	77	76.4
	MIN		66	67	62	64	65	66	62	64	60	62	62	61	61	62	62	59	58	62	52	53	57	56	56	58	57	55	59	61	68	70	60.9
MAKAPUU POINT 724	MAX	75	78	78	77	74	75	75	75	70	75	78	75	76	75	71	74	68	76	75	75	69	77	71	75	73	77	72	76	75	74	73	74.4
	MIN	70	70	66	65	65	63	65	64	66	65	67	65	66	63	65	62	63	62	62	56	60	57	60	57	67	58	60	58	59	60	69	63.1
OPAEULA 870	MAX	77	77	75	81	76	78	73	73	70	69	80	77	75	72	73	72	70	75	75	72	72	69	70	71	77	74	73	76	73	67	73	73.7
	MIN	70	69	67	69	66	58	60	60	64	58	59	58	60	59	59	60	58	61	57	50	50	57	56	52	53	52	52	54	56	58	64	58.9
PKI WAHIAWA 820.2	MAX	75	70	70	69	69	72	73	75	72	70	76	78	80	72	74	73	71	70	75	76	72	71	69	69	70	70	72	76	78	70	75	72.6
	MIN	60	66	59	63	60	60	57	59	65	56	57	58	56	58	58	58	57	55	59	47	47	57	54	50	51	53	50	54	58	65	67	57.2
WAIALUA 847	MAX	83	81	74	74	73	79	73	78	74	73	77	78	81	75	76	75	74	75	76	74	76	73	72	73	75	75	74	75	77	72	78	75.6
	MIN	58	66	68	66	64	64	59	61	63	59	59	60	58	59	65	67	65	65	60	49	60	59	63	55	56	57	55	57	59	64	68	60.9
WAIKIKI 717.2	MAX	82	83	80	76	75	73	81	74	75	73	81	81	82	78	81		79	79	79	77	77	76	75	76	78	80	77	78	79	78	79	78.1
	MIN	68	73	67	63	65	62	67	65	68	59	60	61	65	59	60		56	57	59	51	53	52	52	54	56	52	52	56	62	69	68	60.4
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	79	78	79	76	74	76	76	74	75	73	78	78	80	77	77	75	74	73	75	74	72	73	71	72	71	73	71	73	74	72	75	74.8
	MIN	61	66	66	65	65	64	65	66	68	64	60	65	65	60	62	63	59	59	62	52	54	55	57	58	59	61	59	59	59	69	64	61.6
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ISLAND OF LANAI																																	
LANAI CITY 672	MAX	76	70	74	70	68	69	67	70	69	70	74	76	75	66	70	69	74	72	70	72	72	70	71	69	69	68	70	69	71	72	74	70.8
	MIN	59	63	64	62	63	61	64	59	57	60	58	59	62	59	58	60	56	57	58	59	56	52	54	52	54	52	54	54	57	66	64	58.5
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ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	70	68	66	53	53	56	56	58	59	53	56	65	64	56	57	58	59	57	56	51	50	43	46	47	53	55	57	60	60	52	55	56.4
	MIN	45	51	46	43	46	47	45	50	46	40	37	42	40	43	45	32	35	42	38	31	31	31	30	30	32	36	42	39	40	46	44	40.2
HALEAKALA SUMMIT 338.4	MAX		64	57	57	58	57	44	44	49	42	47	55	59	60	46	46	41	45	46	34	34	35	52	40	46	42	52	54	55	61	42	48.8
	MIN		44	41	38	39	33	35	40	36	35	37	42	30	32	34	29	21	30	30	26	25	26	25	26	30	30	32	35	34	37	34	32.9
HANA AIRPORT 355	MAX	78	80	83	72	79	79	79	81	74	78	80	79	78	80	80	78	76	78	79	78	78	79	76	74	78	74	74	74	79	76	75	77.6
	MIN	57	61	65	64	65	65	65	69	67	62	57	61	61	62	58	60	59	57	57	53	57	54	56	54	58	58	54	59	68	66	69	60.6
KAANAPALI AIRPORT	MAX	82	81	81	75	73	78	78	78	77	74	78	80	80	79	77	78	78	76	77	76	75	74	74	74	74	75	75	75	78	76	79	76.9
	MIN	67	75	67	66	65	71	65	67	68	63	61	63	69	70	69	65	66	62	63	57	59	55	57	60	60	58	61	59	67	67	70	64.3
KAHULUI WB AP 398	MAX	81	83	74	73	79	78	82	79	75	80	79	80	80	81	79	78	78	79	77	75	76	74	76	75	74	74	76	78	78	80	81	77.8
	MIN	58	71	67	66	67	66	66	70	66	60	56	58	61	60	58	63	53	54	58	48	54	49	52	57	55	52	51	55	67	67	66	59.7
KAILUA 446	MAX	76	78	81	68	69	78	78	74	72	69	80	78	78	79	81	77	76	76	79	80	75	78	78	77	73	73	73	75	74	70	70	75.6
	MIN	56	59	61	61	63	63	62	63	65	60	59	59	59	60	60	60	57	57	58	53	52	56	57	56	55	54	55	55	60	63	64	58.8
KEAWAKAPU BEACH 260.2	MAX	83	86	84	73	79	80	81	80	77	75	82	82	85	83	81	80	80	78	78	78	80	76	77	78	78	78	78	78	84	86	86	80.1
	MIN	59	60	65	63	65	67	65	70	67	67	59	60	60	64	61	64	55	56	58	53	55	54	53	56	56	59	56	53	57	63	62	60.1
KULA SANATORIUM 267	MAX	68	71	75	65	65	65	68	67	72	63	68	69	68	70	67	69	66	67	66	63	64	61	62	62	64	65	61	59	61	65	69	65.6
	MIN	50	51	61	55	55	56	58	60	60	53	49	50	51	58	49	47	47	48	50	44	42	43	45	46	44	41	42	43	44	49	53	49.8
LAHAINA 361	MAX	84	82	81	72	73	75	78	78	76	74	81	80	80	80	80	80	79	79	80	78	77	77	77	78	80	79	79	79	79	80	82	78.6
	MIN	66	70	67	66	65	68	64	69	67	61	62	62	66	64	63	65	61	61	63	56	58	58	57	59	58	58	58	58	60	65	65	62.6

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
WAILUKU 392	MAX	78	78	80		78	78	80	78	77	74	83	83	82	81	82	80	80	79	81	74	78	76	75	75	77	76	76	78	78	79	79	78.4
	MIN	59	69	64		64	68	63	69	69	62	63	65	64	61	60	64	58	59	60	57	57	56	58	58	58	56	57	59	65	67	68	61.9
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ISLAND OF HAWAII																																	
HAINA 214	MAX	78	81	82	75	73	80	75	78	81	83	82	79	80	80	82	80	78	78	80	76	74	77	77	77	75	73	74	75	76	75	75	77.7
	MIN	59	60	63	62	63	63	62	64	65	62	60	59	65	60	60	58	60	59	60	55	53	58	58	60	55	57	56	58	61	61	62	59.9
HAWAII VOLCNS NP HQ 54	MAX	67	67	68	62	61	61	62	67	64	65	67	64	64	66	69	65	65	59	62	65	58	67	58	61	63	63	63	62	61	63	58	63.5
	MIN	50	52	52	54	54	56	56	58	59	53	49	52	50	50	52	49	53	51	47	44	39	47	45	44	42	48	47	47	48	51	54	50.1
HILO W8 AIRPORT 87	MAX	85	84	77	75	81	76	80	87	80	80	80	81	81	82	81	79	78	79	80	78	82	77	80	78	77	79	80	77	76	77	75	79.4
	MIN	57	63	68	67	69	69	68	70	69	65	65	65	62	66	65	60	61	63	57	57	57	63	54	60	58	62	63	64	63	67	67	63.4
KAINALIU 73.2	MAX	74	78	78	71	70	75	69	75	78	73	75	75	76	76	74	74	74	71	75	74	72	72	71	71	74	74	73	73	74	77	80	74.1
	MIN	57	62	65	63	64	64	63	65	63	58	57	58	59	60	57	57	55	53	56	56	55	52	53	52	54	55	52	54	57	61	61	58.0
KAMUELA 192.2	MAX	73	74	77	68	64	76	70	76	76	75	69	73	74	74	68	76	70	67	69	72	68	64	65	66	66	70	70	67	66	66	70	70.3
	MIN	44	47	52	57	56	58	57	56	59	57	50	45	44	47	45	48	50	45	44	46	48	48	45	44	47	40	44	48	52	55	55	49.5
KAMUELA AIRPORT 191	MAX	72	72	72	69	67	72	69	72	73	74	71	71	72	71	71	69	68	67	68	70	66	68	66	65	68	67	70	66	66	68	69	69.3
	MIN	37	42	52	40	58	50	47	41	48	42	44	45	42	45	43	40	39	44	42	42	52	49	46	44	48	40	41	41	44	42	57	44.7
KEAAU 92	MAX	83	83	90	78	78	78	78	84	85	78	82	82	82	87	83	82	80	82	82	82	79	81	80	80	79	79	79	79	80	74	75	80.8
	MIN	60	60	61	65	65	65	67	67	68	63	58	58	58	58	60	59	58	56	56	56	56	59	58	56	55	61	61	61	61	63	64	60.4
KEALAKEKUA 26.2	MAX	74	79	80	72	71	76	69	76	78	74	76	75	77	77	75	73	75	72	75	74	74	72	71	71	75	74	74	75	74	77	80	74.7
	MIN	59	63	65	63	64	65	62	65	63	59	58	59	59	61	59	58	57	56	57	58	56	55	55	54	56	57	55	58	58	62	62	59.3
KOHALA MISSION 175.1	MAX	77	78	82	69	73	75	74	81	83	81	78	80	79	79	77	76	78	75	77	76	75	73	74	75	74	74	74	74	75	74	74	76.3
	MIN	60	61	63	65	65	66	64	65	67	66	63	61	61	63	66	63	63	59	63	57	58	59	61	59	58	58	58	59	65	65	65	62.1
KONA AIRPORT 68.3	MAX	81	82	82	76	76	78	83	78	80	75	81	82	83	80	79	78	78	78	80	78	77	74	74	77	78	78	78	79	81	82	81	78.9
	MIN	62	68	68	69	65	69	68	68	70	66	64	60	60	67	68	62	68	64	60	56	60	62	56	57	59	56	57	57	57	57	59	62.5
KULANI CAMP 79	MAX	60		71	56	60	59	60	67	70	64	66	63	66	61	67	65	63			64		68	69	61	60	65	65	60	57	58	55	63.0
	MIN	39		42	50	50	53	53	55	56	44	42	43	40	41	39	41	43			37		38	42	40	36	36	32	33	42	50	48	43.1
MAUNA KEA BEACH 98	MAX	82	83	83	74	75	85	77	83	82	82	81	81	82	81	81	79	80	78	79	82	82	76	78	77	81	78	81	82	81	85	87	80.6
	MIN	63	66	67	68	65	67	66	69	69	68	64	64	64	66	66	67	65	64	63	62	67	60	61	58	62	59	59	61	63	65	67	64.4
MAUNA LOA SLOPE 08S	MAX	56	52	46				48	49	49	40	49	56	49	44	47	42	47	45	44	38	38	40	39	49	45	47	52	49	49	46	48	46.5
	MIN	34	39	36	34			37	38	34	31	33	34	36	33	32	29	29	33	30	29	23	26	22	32	27	27	34	33	33	34	33	31.9
MOUNTAIN VIEW 91	MAX	77	77	82	70	69	72	72	79	78	74	75	77	72	78	76	73	78	71	72	76	71	77	70	74	73	75	73	73	71	71	68	74.0
	MIN	54	56	56	61	62	63	63	62	66	60	56	58	57	57	56	56	56	54	52	49	48	52	52	51	49	56	59	57	57	59	61	56.6
NAALEHU 14	MAX	79	79	82	82	76	76	74	81	78	80	80	80	79	79	80	80	79	79	79	79	76	79	76	77	77	77	76	76	77	78	78	78.3
	MIN	61	61	68	68	64	64	65	68	68	62	62	62	63	65	65	63	62	62	62	60	60	65	60	60	60	60	59	60	65	65	66	63.1
OOKALA 223	MAX	79	79	82	75	75	76	73	75	81	80	78	80	79	80	82	76	75	74	76	74	75	77	74	73	74	73	75	73	76	74	74	76.4
	MIN	62	64	64	65	65	66	65	66	68	71	63	65	65	65	63	61	62	60	59	58	58	57	59	58	60	60	59	63	65	64	64	62.7
OPIHIHALE 2 24.1	MAX	79	82	71	71	78	72	78	75	72	76	75	75	75	76	73	64	72	73	75	74	73	73	72	73	74	73	72	73	76	80	79	74.3
	MIN	57	62	63	63	65	62	65	65	58	55	54	54	55	60	60	57	54	55	52	53	57	54	51	50	50	51	52	53	54	58	58	56.7
PAHALA 21	MAX	77	80	82	75	74	70	70	80	77	77	78	78	79	80	80	76	78	74	78	77	73	78	74	75	75	77	75	76	77	80	76	76.6
	MIN	59	55	63	63	63	64	65	67	68	61	58	60	62	62	62	59	59	63	58	57	54	57	58	58	55	55	59	56	56	63	65	60.1
UPOLU POINT USCG 159.2	MAX	79	80	82	72	75	79	79	81	81	81	80	81	80	81	80	81	80	76	78	81	82	76	76	76	75	76	76	76	76	76	77	78.4
	MIN	68	67	67	67	68	67	66	68	70	68	67	67	67	68	67	65	65	64	64	62	59	65	63	63	62	62	63	63	66	66	67	65.5

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE W8 AP 1020.1	EVAP	.22	.07	.10	.07	.00	.28	.13	.17	.03	.13	.13	.15	.16	*	*	.18	.25	.21	.15	.25	.21	.15	.24	.21	.20	.23	.18	.24	.25	.15	.34	5.08
	WIND	89	100	47	37	50	88	47	64	38	51	57	53	67	*	*	197	79	53	55	69	86	73	73	74	60	72	70	87	167	232	206	2441
	MAX	83	79	82	75	75	78	78	81	77	79	78	81	79	-	-	79	76	79	81	78	76	70	72	76	77	77	77	80	82	74	71	77.6
	MIN	64	69	67	66	64	61	58	58	61	58	58	58	61	-	-	61	58	52	53	51	51	51	51	51	54	54	54	57	61	65	67	58.4
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.10	-	.08	.03	-	.13	.04	-	.06	.10	.13	.06	.08	.12	.14	.15	.10	.15	.12	.12	.13	.12	.14	.11	.15	.14	.11	.15	.13	.15	3.538
	WIND	26	41	24	10	11	21	12	7	4	6	9	12	12	12	12	26	23	16	16	34	17	21	24	25	17	24	11	16	40	60	59	648
	MAX	83	83	79	79	73	82	83	76	73	72	83	86	81	79	84	80	79	72	83	79	80	79	75	76	76	81	81	78	80	80	81	79.2
	MIN	64	68	67	65	65	65	64	64	67	62	62	64	65	63	61	60	60	58	58	54	53	55	55	55	55	63	55	57	61	63	66	61.1

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF KAUAI												
[illegible]XANDER RESV. 983	[illegible]	02	KOLOA	[illegible]	21 [illegible]7	1[illegible]	1610				C	MC BRYDE SUGAR CO.
ANAHOLA 1111	A [illegible]	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDEWOOD STA 985	A [illegible]	02	KOLOA	2	21 5[illegible]	159 32	120		7A			MC BRYDE SUG CO LTD
[illegible] 936	A [illegible]	02	KOLOA	2	21 5[illegible]	1[illegible] 30	44		7A			MC BRYDE SUG CO LTD
[illegible] RESERVOIR [illegible] 94.	2465	01	KAWAIHAU	[illegible]	22 [illegible]	159 [illegible]2	3[illegible]					LIHUE PLANTATION
[illegible] 927	A [illegible]	02	KOLOA	2	21 54	159 35	143		6A			MC BRYDE SUG CO LTD
[illegible] A 111[illegible]	A [illegible]35	[illegible]	KAWAIHAU	[illegible]	[illegible]7	1[illegible] 19	2[illegible]		7A			LIHUE PLTN CO LTD
[illegible] NANAH[illegible]	A [illegible]	02	LIHUE	2	21 58	159 27	470		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1153	[illegible]	01	KAWAIHAU	1	22 5	159 28	1218					LIHUE PLTN CO LTD
[illegible] 965	[illegible]	03	WAIMEA	3	21 5[illegible]	159 41	8[illegible]		8A			KEKAHA SUGAR CO LTD
[illegible] A INTAKE 1050	A [illegible]	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA P 1086	A 22[illegible]	[illegible]	HANALEI	1	22 [illegible]	159 34	670		WI			MC BRYDE SUG CO LTD
KA [illegible]WAI RES 1131	A 2976	01	HANALEI	1	22 11	159 26	400		7A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3[illegible]99	[illegible]	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R.
[illegible] RESERVOIR 1092	A [illegible]	01	KAWAIHAU	1	22 [illegible]8	159 22	800		7A			LIHUE PLANTATION
KAPAA STATE 11[illegible]	A [illegible]159	[illegible]	KAWAIHAU	1	22 [illegible]	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	42[illegible]	03	WAIMEA	3	21 58	159 43	9		8A			KEKAHA SUGAR CO LTD
KILAUEA 1134	A 456[illegible]	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA [illegible] 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S [illegible] GUARD
[illegible]TANO [illegible] 37.	465	03	WAIMEA	[illegible]	22 02	159 41	215				C	KEKAHA SUGAR CO.
K[illegible] 1 3[illegible]	[illegible]5	01	WAIMEA	3	22 [illegible]4	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 934	A 475[illegible]	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LT
K[illegible]	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
K[illegible]LA 935	A 495	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	556	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE [illegible]	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1[illegible]2 .1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1 2[illegible]	6082	03	WAIMEA		22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M[illegible]	609[illegible]	02	KOLOA	2	21 55	159 28	300					GROVE FARM COMPANY
MOHIHI [illegible] 1083	A 64[illegible]	01	WAIMEA	3	22 07	159 36	3500		MID			U S GEO SURVEY
MOLOAA [illegible]65	A 6529	01	KAWAIHAU	1	22 11	159 20	33		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	5565	03	WAIMEA	2	22 04	159 30	5148		MID			U. S. GEO. SURVEY
[illegible] PI[illegible] 1035	685	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH [illegible] 1 5	A [illegible]888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	6893	01	LIHUE	2	22 04	159 26	650					LIHUE PLTN CO LTD
PH WAINIHA 1115	815	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
[illegible] 1[illegible]40	82[illegible]5	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
P[illegible] 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
[illegible]RVOIR [illegible] 1034	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
[illegible] CAMP 1055.	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 93	A 874[illegible]	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 99.	A 8947	02	KOLOA	2	21 58	159 31	2100		MO			MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	9358	02	LIHUE	2	22 [illegible]1	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER [illegible] 1052	9366	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
[illegible]AWA 943	9253	03	WAIMEA	3	21 59	159 43	1		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1 65	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 57	159 41	20		8A			WAIMEA SUG MILL [illegible]
[illegible]T LAWAI 9[illegible]1	A 9955	02	KOLOA	2	21 54	159 31	[illegible]		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
[illegible]IMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
[illegible] FILL [illegible] 625 761	A 111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
[illegible]RETANIA PUMPING STA	211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A [illegible]	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
[illegible] LAIE	340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
[illegible]ONUT I LAN[illegible] 84 .1	35	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
[illegible] HIGH[illegible] 780.8	438	02	HONOLULU	2	21 21	157 50	565				C	J. L. BANNING
EWA PLANTATION 741	1507	03	EWA	3	21 21	158 2	50	9A	7A			EWA PLANTATION CO
HALAWA SHAFT 771.2	[illegible]964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A [illegible]384	05	WAIALUA	5	21 [illegible]	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
H[illegible]ULOA 75.2	A 154[illegible]	03	EWA	3	21 24	158 06	2.2		VAR		C	H. V. VON HOLT
HONOLULU [illegible] 702.2	1918	01	EWA	3	21 19	158 00	5		9A	9A		U S COAST + GEODETIC
HONOLULU WBO [illegible]7	R 1917	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	U S WEATHER BUREAU
HONOLULU [illegible]SSTA 704	1920	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 [illegible]1	157 54	800		WI			WAIAHOLE WTR CO LTD
KAHUKU 912	A [illegible]	01	KOOLAULOA	1	21 41	157 57	25	8A	8A			KAHUKU PLTN CO
KAILUA FIRE STA 791.3	268	01	KOOLAUPOKO	1	21 24	157 45	10		8A			KAILUA FIRE STATION
KALIHI [illegible] 777	296	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAM HAME 724.[illegible]	[illegible]	01	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781	311	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	[illegible]12	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	[illegible]	01	KOOLAULOA	1	21 3[illegible]	157 54	10				C	GEORGE H. SWIFT
KAPALAMA [illegible]	A [illegible]	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A [illegible]734	05	WAIALUA	5	21 35	158 11	2[illegible]		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAK 88[illegible]	A [illegible]741	05	WAIALUA	5	21 34	157 59	1190		WI			WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.[illegible]	[illegible]	01	KOOLAULOA	1	21 40	158 00	1050					HAWAII NATIONAL GUARD
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 3[illegible]	158 05	725		7A			WAIALUA SUGAR CO. INC.
[illegible]LAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C + F OFFICER HEDG
[illegible]ALUALEI 8.4	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A			USN AMMUNITION DEP
[illegible]ALUALEI WATER TUNNEL	A 565[illegible]	04	WAIANAE	4	21 29	158 08	1500		WI			U S NAVY
[illegible] 781.[illegible]	5655	01	KOOLAUPOKO	1	21 24	157 49	240					MILNOR LUM
LUNALILO HOME 724.2	67[illegible]	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A 5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA VALLEY [illegible] .1	A [illegible]781	04	WAIANAE	4	[illegible] 29	158 12	160		8A		C	CAPITAL INVEST CO
MAKAPUU POINT 724	[illegible]80[illegible]	02	HONOLULU	2	21 19	157 39	5[illegible]8	8A	8A			U S COAST GUARD
MANOA 712	[illegible]122	02	HONOLULU	2	21 19	157 49	2[illegible]		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	[illegible]13	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 78[illegible].1	62[illegible]2	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 77[illegible]	6375	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	655	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM.
NUUANU RES 4 783	[illegible]728	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
[illegible]PAE[illegible]LA 87[illegible]	A 71[illegible]	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	295		MID			BOARD OF WTR SUPPLY
PAUOA FLAT 784	[illegible]	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL [illegible] TER[illegible]E 754.1	[illegible]	03	EWA	3	21 2[illegible]	157 58	240				C	JAMES MUMENO
PORT[illegible] CK[illegible]AD 724.4	[illegible]1.6	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO. JR.
PRI WAHIAWA 82[illegible].2	A [illegible]72	05	WAHIAWA	5	21 [illegible]8	158 1	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNA[illegible] 884	A [illegible]	01	KOOLAULOA	1	21 3[illegible]	157 54	40		8A			KAHUKU PLTN CO
PUN[illegible]HB[illegible] [illegible]ATE [illegible]9	A 8316	02	HONOLULU	2	[illegible] 19	157 51	3[illegible]0		8A			NAT MEM CEMETERY
PUPUKEA HEIGHT 896.4	8342	05	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
[illegible]HENS[illegible] FM 788	86	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTAL[illegible] 78	871	02	HONOLULU	2	21 20	157 49	[illegible]				C	BOARD OF WATER SUPPLY
TANTA[illegible] 78 .5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHI[illegible]
UNIV OF HAWAII 71[illegible]	A [illegible]815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8[illegible]64	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	[illegible]185	02	HONOLULU	2	[illegible] 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A [illegible]	05	WAIALUA	5	21 35	158 07	32	7A	7A			WAIALUA SUGAR CO. INC.
WAIANAE [illegible]98	A [illegible]231	04	WAIANAE	4	21 27	158 11	20		8A			CAPITAL INVEST CO
WAIANAE MAUKA 8[illegible]3	A [illegible]238	04	WAIANAE	4	21 29	158 09	1575		WI			CAPITAL INVEST CO
WAIAWA 836	A [illegible]261	03	EWA	3	21 28	157 56	800		MO			WAIAHOLE WTR CO LTD
WAIKANE [illegible]8	A [illegible]	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIAHOLE WTR CO LTD
WAIKIKI [illegible]	[illegible]	02	HONOLULU	2	21 16	157 49	1	8A	8A			HONOLULU ZOO
WAILUPE [illegible] 723.2	A [illegible]	02	HONOLULU	2	21 18	157 45	170		WI			BOARD OF WTR SUPPLY
WAILUPE [illegible] 723.6	[illegible]	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO 794	A [illegible]	01	KOOLAUPOKO	1	21 21	157 44	60		8A			ST DIV WTR + LAND DEV
[illegible]	A [illegible]	05	WAIALUA	5	21 38	158 04	420		7A		C	WAIALUA SUGAR CO. INC.
WAIPAH[illegible]	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RI[illegible] 721	998	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 56[illegible]	A [illegible]896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 54[illegible].6	[illegible]	01	MOLOKAI	1	21 [illegible]	156 52	60				C	W. J. CARSTEN
KAUNAKAKAI 536	A [illegible]41	01	MOLOKAI	1	21 06	157 [illegible]	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	[illegible]47	01	MOLOKAI	1	21 06	157 [illegible]	7[illegible]				C	MOLOKAI GENERAL HOSPITA
[illegible] 551	A [illegible]394	01	MOLOKAI	1	21 12	157 12	560		WA			MOLOKAI RANCH. LTD.
[illegible]ALAP[illegible] 5[illegible]	A 4778	01	MOLOKAI	1	21 09	157 02	870		7A		C	DEL MONTE CORPORATION
MAP[illegible] 54[illegible]	[illegible]	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNAL[illegible]	A 61[illegible]	01	MOLOKAI	1	21 [illegible]8	157 13	1070		9A		C	LIBBY MCNEILL + LIBBY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 [illegible]	157 06	450	8A	8A			ALOHA AIRLINES
PUUOHOKU RANCH 542.[illegible]	85[illegible]	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
WAIK[illegible] 54[illegible]	A [illegible]	01	MOLOKAI	1	21 08	156 55	[illegible]550		TW		C	MOLOKAI RANCH

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF LANAI												
KANEPUU 690	A 313	01	LAHAINA	1	20 53	157 00	1640		WI		C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI		C	DOLE COMPANY
MAHANA 694	A 5704	01	LAHAINA	1	20 53	156 55	1430		MO			DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1135		WI		C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	2 47	156 52	2040		WM			DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A			U OF MICH MT HKALA OBSY
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690					PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM + SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A			HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100					STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650					EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRP CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM + SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A			A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM + SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800		MO			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM + SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		WI			KAUPO RANCH CO.
PAUWELA 490	A 7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
PUHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500		MO			PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM + SUG CO
PUU PAHI 352	8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 2[illegible]	85		8A			HAWAIIAN COM + SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	2 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 331	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A			ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		WM			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			GREENWELL RANCH
AWINI 182.1	A 0193	01	N KOHALA	1	20 10	155 43	1870		WI			KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240		MO			KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	2 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770		MO			KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		MO			STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	U S WEATHER BUREAU
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700					RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A			SHIGEO MASUYA
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700					HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A			MISS AMY GREENWELL
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV. OF FORESTRY
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840		WI			KOHALA DITCH CO LTD
KIOLAKAA A + F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		7A			KOHALA SUGA9 CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A			HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 52	155 55	15		8A			KONA VILLAGE RESORT HIL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			U S WEATHER BUREAU
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L + N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650					STATE DIV. OF PARKS
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS 39	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			**MAUNA LOA OBSERVATORY**
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600		MO			HAWAIIAN RANCH CO

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7168	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAJILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7640	03	KAU	3	19 22	155 28	5000		MU			HAWAIIAN RANCH CO., INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			HAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			HAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 04	100		7A			PEPEEKEO SUGAR CO
PIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MU			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. PAPP
PUU KIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440		MU			STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUANUMAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82		8550	02	S HILO	2	19 44	155 23	6340		6A		W. H. SHIPMAN, LTD
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	BILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400		WI			HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305				C	FEDERAL ELECTRIC CORP
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U.S COAST GUARD
WAIAAEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830				C	KAHUA RANCH

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table; "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- \- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry

- \+ And also on an earlier date or dates.

- ++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data.

- * Amount included in following measurement, time distribution unknown.

- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

- B Adjusted to a full month

- J "Supplemental Data" table.

- M One or more days of record missing; if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.

- R Amounts from recording gage.

- T Trace, an amount too small to measure.

- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- AR Observation made after rain.

- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

- MO Gage read once monthly; usually on the last day.

- OC Gage readings at periods varying from a few weeks to several months.

- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

- SS Observation time is near sunset.

- VAR Observation time is variable.

- WI Gage read weekly or irregularly only.

- WM Gage read weekly and last day of month.

- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE -4/29/69-890

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
FEBRUARY 1969
Volume 65 No. 2

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JUN 11 1969
S.C. TECH. & AGR. DIV.

CLIMATOLOGICAL DATA

Station		Temperature													Precipitation								
										No. of Days				Total	Departure From Normal	Snow, Sleet				No. of Days		
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below			Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														2.79	- 2.67	.77	14	.0	0		1	0
KANALOHULUHULU 1075	A	63.5	52.8	58.2		74	7	47	27		0	0	0	0	5.53		2.11	2	.0	0	12	3	1
KAPAA STABLES 1104	A														3.34				.0	0			0
KILAUEA FIELD 17 1135	A														9.21	1.03			.0	0			
KILAUEA POINT 1133		75.6	65.2M	70.4M		88	9	58	14		0	0	0	0	3.72		.86	10	.0	0	9	3	0
KOLOA 936	A														9.85	3.61			.0	0			
LIHUE WB AP 1020.1	R	74.6	66.4	70.5	- .2	81	12	62	14		0	0	0	0	1.94	- 3.38	.40	1	.0	0	7	0	0
MANA 1026		81.6	62.6	72.1	1.1	85	20+	56	28		0	0	0	0	1.48	- 1.33	1.12	2	.0	0	3	1	1
N WAILUA DITCH 1051	A														31.21				.0	0			
PH WAINIHA 1115															27.82	16.17	5.81	2	.0	0	20	13	10
PUEHU RIDGE 1040															4.18		3.74	2	.0	0	2	1	1
WAHIAWA 930	A														5.33	1.07			.0	0			
WAIAHI LOWER 1054		74.6	62.1	68.4		83	12	59	7+		0	0	0	0	17.37		4.64	1	.0	0	18	9	5
WAIMEA 947															3.69	.29	2.60	2	.0	0	3	2	1
ISLAND				67.9											9.10				.0				
* * *																							
ISLAND OF OAHU																							
HONOLULU OBSERV 702.2															.44				.0	0		0	0
HONOLULU WBFC 703	R	79.9	67.8	73.9	1.5	85	10	65	26+		0	0	0	0	.48	- 2.82	.13	1	.0	0	1	0	0
KAHUKU 912	A	77.4M	67.5M	72.5M	.9	83	10	65	27+		0	0	0	0	4.25	- .82			.0	0			
KANEOHE MAUKA 781		74.9	67.1	71.0	- .2	81	14+	61	27+		0	0	0	0	21.93	14.31	12.60	2	.0	0	14	5	5
KOOLAU OAM 833															17.58	8.54	8.14	2	.0	0	15	8	5
LUALUALEI 804		79.2M	68.3M	73.8M		84	8	65	7		0	0	0	0	.63				.0	0		0	0
MAKAPUU POINT 724		76.3	68.6	72.5		84	13	65	26+		0	0	0	0	2.07	- 1.46	1.29	2	.0	0	4	1	1
NUUANU RES 4 783															12.46	1.41	6.04	1	.0	0	13	7	3
OPAEULA 870	A	71.8	61.6	66.7	.0	83	11+	58	28+		0	0	0	0	12.25	3.84			.0	0			
PALOLO VALLEY 718															23.48	12.48	5.70	14	.0	0	19	12	6
PRI WAHIAWA 820.2	A	77.5	63.3	70.4		83	13+	60	28+		0	0	0	0	5.93				.0	0			
PUNALUU 824	A																		.0	0			
WAHIAWA OAM 863	A														4.29				.0	0			
WAIAHOLE 837	A														33.10	19.98			.0	0			
WAIALUA 647	A	77.6	64.5	71.1	.9	85	13+	57	28		0	0	0	0	4.77	- .04			.0	0			
WAIKIKI 717.2		80.4	67.6	74.0		86	13	64	27		0	0	0	0	.83		.20	3	.0	0	3	0	0
WAIPAHU 750	A														1.62	- 2.07			.0	0			
ISLAND				71.8											9.11				.0				
* * *																							
ISLAND OF MOLOKAI																							
KUALAPUU 534	A														3.11	- .53			.0	0			
MAPULEHU 542															3.86	- .24	.93	1	.0	0	11	2	0
MAUNALOA 511	A														.55	- 2.53	.16	27	.0	0		0	0
MOLOKAI AP 524		76.2	65.2	70.7		83	13	62	7		0	0	0	0					.0	0			
ISLAND				70.7											2.51				.0				
* * *																							
ISLAND OF LANAI																							
LANAI CITY 672	A	73.6	61.6	67.6	2.1	80	7	57	15		0	0	0	0	1.91	- 1.82	.73	16	.0	0	3	2	0
ISLAND				67.6											1.91				.0				
* * *																							
ISLAND OF MAUI																							
HALEAKALA 8 E S 434	A														24.18	15.06	7.93	2	.0	0	18	12	7
HALEAKALA RS 338		58.6	43.6	51.1		68	13+	33	28		0	0	0	0	10.17		2.13	2	.0	0	15	6	4
HANA AIRPORT 355		76.6	67.4	72.0		84	14	44	17+		0	0	0	0	14.11		3.38	1	.0	0	14	6	5
HONOKOHUA 493	A														7.61	3.87			.0	0			
KAANAPALI AIRPORT		79.3M	66.8M	73.1M		83	9+	64	22+		0	0	0	0					.0	0			
KAHULUI WB AP 398	R	79.5	65.4	72.5	.8	84	11+	56	5		0	0	0	0	3.51	.97	1.54	2	.0	0	6	3	1
KAILUA 446		72.5	63.3	67.9	- .2	82	14	59	25		0	0	0	0	29.14	18.67	7.00	2	.0	0	17	14	7
KEANAE 346	A														71.82	52.41			.0	0			
KIPAHULU 258															24.74	15.81	12.35	1	.0	0	17	9	5
KULA SANATORIUM 267		70.0	54.9	62.5	1.4	72	14+	47	27		0	0	0	0	.15	- 3.73	.13	2	.0	0	1	0	0
LAHAINA 361		82.5	66.0	74.3		85	14	62	27+		0	0	0	0	.32	- 1.77	.24	2	.0	0	1	0	0
PAIA 406															4.75	1.19	1.32	2	.0	0	8	3	1
WAILUKU 392		78.9M	66.9M	72.9M	1.6	87	14	64	26		0	0	0	0	3.82	- .03			.0	0			
ISLAND				68.3											16.19				.0				
* * *																							
ISLAND OF HAWAII																							
HAINA 214		75.9	61.6	68.8	- .7	83	14+	59	28+		0	0	0	0	24.54	17.62	6.24	15	.0	0	19	13	6
HAWAII VOLCNS NP HQ 54		62.1	52.0	57.1	- .8	73	13	47	27+		0	0	0	0	28.37	18.12	3.82	20	.0	0	23	17	11
HILO WB AIRPORT 87	R	78.3	66.1	72.2	1.6	85	12+	62	24		0	0	0	0	43.66	30.72	10.60	1	.0	0	21	16	11
HUEHUE 92.1	A														1.83	- .88			.0	0			0
KAINALIU 73.2		76.2	61.5	68.9		80	4	58	28		0	0	0	0	1.08	- 2.31	.30	15	.0	0	4	0	0
KAMUELA AIRPORT 191		69.9	49.2	59.6		77	14	36	25		0	0	0	0	1.31		.35	4	.0	0	5	0	0

See Reference Notes Following Station Index
SPECIAL WEATHER SUMMARY ON PAGE 15

CLIMATOLOGICAL DATA

Continued

Station	Temperature													Precipitation									
									No. of Days									Snow, Sleet			No. of Days		
									Max.		Min.												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 9	78.0	62.9	70.5	.2	85	13	60	24+		0	0	0	0	50.19	36.76	9.94	1	.0	0		21	15	11
KEALAKEKUA 26.2	76.9	62.1	69.5		82	4	59	24		0	0	0	0	1.45		.36	16	.0	0		6	0	0
KONA AIRPORT 68.3	80.6	64.5	72.6		84	16	61	28+		0	0	0	0	2.56		1.25	17	.0	0		3	2	1
KUKUIHAELE HIC 199														13.79	6.48	2.31	15	.0	0		19	11	3
KULANI CAMP 79	60.0	46.5	53.3		70	13+	38	8+		0	0	0	0	35.90		4.94	20	.0	0		22	16	13
MAUNA KEA BEACH 98	86.6M	69.9M	78.3M		92	8	55	14		7	0	0	0	.49		.45	10	.0	0		1	0	0
PAHALA 2E	76.9	62.5	69.7	.9	83	27	54	27		0	0	0	0	4.07	- 2.52	1.07	19	.0	0		9	3	1
PUHAKUL A 107	"													.83		.60	16	.0	0		2	1	0
PUKO 95.1	"													.21		.09	7	.0	0		0	0	0
PUU WAA-AA 94.1	"													.18	- 2.39			.0	0			0	0
UMIKOA 118														24.75	14.20	5.55	16	.0	0				
WAIAKEA SCU 88.2														64.85		11.29	1	.0	0		22	17	14
ISLAND			67.3											16.67				.0					

EXTREMES

HIGHEST TEMPERATURE MAUNA KEA BEACH 98, HAWAII	92	DATE	08
LOWEST TEMPERATURE 2 STATIONS	27	DATE	28+
GREATEST TOTAL PRECIPITATION HONOMU MAUKA 138, HAWAII	81.55		
LEAST TOTAL PRECIPITATION 3 STATIONS	.00		
GREATEST 1 DAY PRECIPITATION KANEOHE MAUKA 781, OAHU	12.60	DATE	02

See Reference Notes Following Station Index

HAWAII - FEBRUARY 1969

SPECIAL WEATHER SUMMARY

Highlighting February's weather were a major flash flood and long periods of unusually strong trade winds.

On the very first day of the month, a meteorological situation of a kind known to have produced some of windward Oahu's heaviest downpours -- an upper-level low pressure area overlying a deep layer of strong, moist trade winds -- brought that area torrential rains which inundated the Keapuka subdivision near Kaneohe -- the same locality hard-hit by a similar flood on February 4, 1965, almost exactly 4 years earlier.

Intensities appear to have been greatest between about 10 a.m. and 1 p.m. One rain gage in the vicinity registered 5.2 inches between 11 a.m. and noon, 1-1/2 inches during the last 15 minutes of that hour, and an hourly rate in excess of 1 inch in every 15 minutes from 11 a.m. to 12:30 p.m.

At 12:30 p.m., Kamooalii Stream, a tributary of Kaneohe Stream, was beginning to top its banks downstream of Keapuka; and it continued to rise, cresting at 3:30 p.m. By 2 p.m., however, the flood waters were already entering Keapuka's lower sections, and within an hour torrents 3 to 5 feet deep were racing through the streets, lawns, and houses of that community, forcing many residents from their homes.

State Civil Defense authorities estimated total damages in Keapuka at $436,000: $285,000 of it to 56 homes (of which four sustained serious, eight moderate, and the remainder light damage -- most of it to furnishings and personal effects); $15,000 to 12 automobiles; $80,000 to the Kamooalii Stream channel invert; $6,000 to miscellaneous items; and $50,000 for removing debris from the channel and flooded area.

Earlier that day, flooding also occurred at Kahaluu, 5 miles to the northwest, where $50,000 in damage was done to six businesses and $20,000 to a drainage canal.

In all, losses were set at $156,000 to public facilities and $350,000 to private property.

The same storm gave heavy rains also to Maui and Hawaii on the 1st, 2d, and 3d. Three-day totals of up to 25 inches on the slopes near Hilo flooded some downtown streets and businesses, but damage appears to have been light.

February was also one of the windiest months on record. For weeks at a time strong, northeasterly trade winds from intense high pressure systems, migrating eastward north of the State, swept over the mountains, becoming stronger and more turbulent in leeward than in windward areas. At Honolulu International Airport, gusts exceeded 40 m.p.h. on the 3d, 15th, 16th, 20th, 21st, and 22d, and peaked at 52 m.p.h. at 6:07 a.m. on the 21st. Small craft warnings were in effect on 19 days, gale warnings on 3 days, and high wind warnings on 4 days.

Nevertheless, wind damage was surprisingly light and in the main confined to the 20th and 21st of the month. On Oahu during that period, 11 homes and garages on the Waianae coast lost roofing and three utility poles were downed. Elsewhere in leeward Oahu, only scattered tree damage and power outages occurred.

In leeward west Maui, gale-force trade winds rushing through mountain gorges to windward brought the area its legendary lehua or red wind, so named after the red lehua blossoms which are said to be torn from the trees by these strong winds and blown through the air in such numbers as to color the air crimson. Trees, electric poles, and roofing were extensively damaged. In Puukolii a huge eucalyptus tree was blown down, cutting a house in two, but fortunately injuring no one.

Local residents described the winds as the strongest in 15 years. On the slopes of leeward west Maui, winds appear to have been unusually strong and turbulent, with gusts frequently exceeding 75 m.p.h. Peak gusts reached 50 m.p.h. at Kaanapali Airport, near the coast, at 10 a.m. and 11 a.m., and 53 m.p.h. at 1:04 p.m. at the Kahului Weather Bureau Office, in Maui's central valley, near where (in Paia) a greenhouse roof was smashed. In Kamuela on Hawaii Island, gusts of 48 m.p.h. blew a pine tree down onto a home on the night of the 20th.

On the 14th at Kahaluu, Oahu, one of the areas flooded on the 1st of the month, an estimated 200,000 cubic yards of mud, apparently loosened by frequent heavy rains, slid down a hillside, partially burying a house and killing 1 of 4 residents asleep inside.

Toward the end of the month smoke and haze from a volcanic eruption which began at 9:50 a.m. February 22 on the eastern flank of Hawaii Island's Kilauea Volcano drifted westward with the trade winds, lowering visibilities in the Kona district to 4 miles at Kailua Airport and to 6 miles at Kealakekua.

Rainfall for the month followed the trade wind pattern, but with an even greater contrast between dry leeward and wet windward sections. On all islands, but particularly on Oahu, Maui, and Hawaii, many gages along the windward (eastern) coasts and slopes registered three to four times their average February rainfall,

SPECIAL WEATHER SUMMARY - CONTINUED

while only a few miles away leeward gages recorded less than half, and some of them less than one-quarter, of their monthly means.

As the following list shows, a number of stations on Maui and Hawaii recorded their greatest February rainfall totals of record.

Stations With More Rain in February 1969
than in Any Previous February

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest February Total	February 1969
MAUI			
Kahoma Intake	58	27.28 inches	36.46 inches
Kailiili	44	34.29	35.29
Paakea	64	64.70	65.04
HAWAII			
Hilo WBO	26	39.32	43.66
Keaau	68	33.13	50.19
Kukaiau	73	41.40	49.02
Mountain View	68	47.92	60.66
Ookala	78	45.23	49.24
Pahoa	59	42.39	46.75 *
Papaikou	70	41.10	52.24
Papaikou Mauka	43	46.22	75.20
Puuokumau	41	17.53	21.33

* -- Greatest in any month.

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DAILY PRECIPITATION

Station		Total	Day of Month																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																
ANAHOLA 1111	A	2.79	*	*	.39	.03	.01			*	*	.31	.20		.10	.77	*	*	.29	.05			.09	*	*	.24	.26	.05					
BRYDESWOOD STA 985	A	16.75	*	*	10.14	.04		.01		*	*	.38	.18	.04	.01		*	*	.12	.63	1.37	1.31	1.33	*	*	1.06	.08	.05					
EAST LAWAI 934	A	11.64	*	*	6.83	.08	T	.02		*	*	.35	.12	.05			*	*	.30	.28	.35	.84	1.13	*	*	.89	.26	.13	.01				
ELEELE 927	A	5.45	*	*	3.74	T		T					.05		.03		*	*	T	.14	.05	.38	.48	*	*	.58	T						
HALAULA 1110	A	3.46	*	*	1.03					*	*	.04	.50		.02	.73	*	*	.33	.06		.05	.05	*	*	.20	.30	.15					
HALENANAHO 1006	A	9.24	*	*	4.40	.17		.02		*	*	.24	.30	.03			*	*	.91	.25	.24	.50	.85	*	*	1.01	.21	.09		.02			
HUKIPO 945		5.03		4.66																		.37										
ILILILULA INTAKE 1050	A	28.50	4.20	6.40	1.24	.26	.05	.28	.05	.12		.03	1.16	.02			*	*	1.65	.68	5.55	1.93	1.55	*	*	2.48	.42	.34	.05	.04			
INTAKE WAINIHA PC 1086	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
KALIHIWAI RES 1131	A	13.33	*	*	3.76	.07	.04	.05	.03	*	*	.02	.62	.01	.40	1.76	*	*	1.71	.45	1.58	.40	.53	*	*	1.09	.58	.20		.03			
KANALOHULUHULU 1075		5.53	.55	2.11	.20				.03				.65		.44		.09	.02	.02	.10	.25	.16	.11	.05	.01	.18	.10	.44	.02				
KANEHA RESERVOIR 1092	A	8.91	*	*	2.20	.01	.06		.02	*	*	.05	.56		.05	.98	*	*	3.00	.10	.02	.10	.23	*	*	.72	.28	.31		.02			
KAPAA STABLES 1104	A	3.34	*	*	.73	.02		.04		*	*	.07	.39			.32	*	*	.37	.09		.05	.09	*	*	.60	.25	.32					
KEALIA 1112	A	2.61	*	*	.65	.01				*	*	.09	.20			.50	*	*	.33	.02		.03	.08	*	*	.24	.40	.06					
KEKAHA 944		2.70		2.23									.03	.02	.12					.02		.27				.01						
KILAUEA 1134	A	6.22	*	*	1.15	.01	.02	.51	.06	*	*	1.08	.62		.30	.94	*	*	.31	.01	.11	.01	.31	*	*	.51	.11	.16					
KILAUEA FIELD 17 1135	A	9.21	*	*	2.35	.03	.03	.07	.01				.57	.01	.43	1.47	*	*	1.43	.05	.55	.12	.45	*	*	1.04	.39	.20		.01			
KILAUEA POINT 1133		3.72	.18	.04		.02		.05			.50	.86		.08	.60	.07		.07		.15	.04	.30	.13		.45	.16		.02				
KOLO 1033		1.16	.70	.29										.03	.11							.03										
KOLOA 936	A	9.85	*	*	5.50	.06		.09	.01	*	*	.25	.09	.01			*	*	.63	.24	.30	.45	.95	*	*	.78	.26	.22	.01				
KOLOA MAUKA 994	A	14.10	*	*	7.68	.22		.03		*	*	.17	.37	.03			*	*	.90	.54	.47	.93	1.21	*	*	1.23	.25	.07					
KOLOKO RES 1137	A	9.10	*	*	2.46	.02	.08	.07		*	*	.04	.75		.50	1.49	*	*	.45	.05	.15	.01	.50	*	*	1.73	.60	.19		.01			
KUKUIULA 935	A	5.71	*	*	3.25	.01		.05		*	*	.32	.04	T			*	*	.19	.18	.07	.27	.77	*	*	.36	.11	.06	.03				
LIHUE VARIETY STA		7.88	1.55	*	1.72	.05	.01			*	*	.03	.47			.03	.50	.41	.14	.10	.03	.78	.49	.23	*	.69	.45	.19	.01				
LIHUE 1020	A	3.48	*	*	1.42	.03		.01		*	*	.04	.11	.01		.01	*	*	.52	.07		.30	.52	*	*	.30	.08	.05		.01			
LIHUE WB AP 1020.1	R	1.94	.40	.08	T		T		T	T	T	.16	T		.06	T	.35	.01	.05	.01	.20	.06	.30	T	.03	.10	T		.03			
MAKAHUENA POINT 940.1		4.14	1.09	.28	.02	.16						.22	.01				.07	.13	.02	.07		.80	.81	.26		.10	.05	.03		.02			
MAKAWELI 965	A	1.95	.88									.01		.06					.08		.59	.15	.16	.01			.01					
MANA 1026		1.48		1.12	.02							.01			.13							.16	.03					.01				
MOHIHI UPR CROSS 1083	A	6.82	*	*	*	*	*	*	*	*	*	*	*	*	*	1.06	.60	.18	.06	.30	1.98	.48	.54	.06		.54	.66	.36					
MOLOAA 1145	A	4.28	*	*	1.08		.01			*	*	.64	.20		.40	.66	*	*	.35	.03		.03	.09	*	*	.49	.20	.10					
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NIU RIDGE 1035		2.40			2.00								.02		.20							.15	.03									
N WAILUA DITCH 1051	A	31.21	*	*	14.00	.30	.20	.63	.20	*	*	.40	.93			.16	*	*	2.00	1.15	4.50	2.61	1.20	*	*	2.17	.35	.38	.01	.02			
PH WAINIHA 1115		27.82	4.26	5.81	.73	.11		.01				.05	.21	T	.37	1.82	1.10	1.40	.40	2.25	1.05	2.37	1.96	1.92	.23	.73	.52	.42	.10	T			
PRINCEVILLE RANCH 1117		9.25	2.12	.90	.02		.12	.04				.06	.48		.19	1.11	.37	.39	.10	.22	1.08	.15	*	.88	.09	.42	.30	.20	.01				
PUEHU RIDGE 1040		4.18		3.74									.03		.06							.35										
PUHI 1013	A	5.34	*	*	2.55	.04				*	*	.09	.13				*	*	.73	.08	.04	.38	.59	*	*	.38	.22	.08	.01	.02			
RESERVOIR 6 1004	A	9.65	*	*	5.06	.07				*	*	.41	.34				*	*	.75	.13	.17	.69	.83	*	*	.81	.22	.13	.02	.02			
WAHIAWA 930	A	5.33	*	*	3.16	.02		T		*	*	.12	.01		.03		*	*	.01	.24	.09	.47	.52	*	*	.65	.01	T					
WAHIAWA MOUNTAIN 990	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
WAIAHI LOWER 1054		17.37	4.64	2.96	.44	.03	.12	.12	.05			.03	.77	.03			.42	.32	.30	.51	1.03	1.92	1.36	.48	.34	.52	.88	.30					
WAIAHI UPPER 1052		24.16	5.21	3.39	.53	.25	.05	.05	.02			.04	1.70	.02			.68	.55	.44	.78	3.03	3.33	1.45	.99	.21	.62	.58	.24					
WAIAWA 943		2.43			1.67	.15								.05	.07					.01		.48										
WAILUA KAI 1065	A	3.32	*	*	1.15	.03							.37			.12	*	*	.45	.05		.10	.06	*	*	.52	.16	.31					
WAIMEA 947		3.69	.35	2.60								.03			.05				.02			.63	.01									
WEST LAWAI 931	A	7.63	*	*	4.80	.04		.01		*	*	.18	.02	.01			*	*	.14	.24	.12	.64	.71	*	*	.54	.07	.09	.02				
* * * ISLAND OF OAHU																																
AIEA FIELD 625 761	A	3.16	*	*	1.92	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.55	*	*	.69	*	*			
BERETANIA PUMPING STA		2.68	.09	.38	.46	T						T			T				.01	.20	.16	.10		.42	.23	.04	.11	.30	.17	.01			
CAMP 84 807	A	5.03	*	*	4.53	*	.01	*	*	*	*	.01	*	*	.01	.10	*	*	.08	*	*	.01	*	*	*	.14	*	*	.14	*			
CHURCH COLLEGE LAIE		5.61	4.10	.06	.05	.04	.04					.07	.02		.04	.25	.17	.17	.05	.03	.17	.07	.07	.06		.03	.06	.06					
COCONUT ISLAND 840.1		12.90	3.50	5.93			.03					*	.06	.07	.01	.42	1.02	.73	.06	.18	.23	.03	.04		.09	.04	.11	.30	.05			
EWA PLANTATION 741		2.10		2.08	T											.01		.01									T	T				
HELEMANO INTAKE 881	A	17.68	*	*	13.31	*	*	.08				.04	*	*	*	*	*	*	*	*	*	*	2.61	*	*	.47	*	*	1.17	*			
HOKULOA 725.2	A	2.01	*	*	1.60	*	*	*	*	*	*	*	*	.16	*	*	*	*	.12	*	*	*	*	*	*	*	.13	*	*	*			
HONOLULU OBSERV 702.2		.44	*	.26	.03										.10													.04	.01			
HONOLULU WBFC 703	R	.48	.13	.09	T		T	T			.08				.02		T	T	T	T	T	T	.05	.02	.02	.01	.02	.04	T	T			
HONOLULU SUBSTA 704		1.60	.18	.59														.05	.05	.10	.06	.10	.25	.10			.10	.02				
H S P A EXP STA 707		3.52	.17	.87	.23	.01						.02			T	.02		*	.01	.38	.24	.13	.19	.23	.04	.05	.20	.61	.12			
KAHANA 883	A	55.34	*	*	28.44	*	*	*	*	*	*	1.74	*	*	*	*	*	*	16.00	*	*	*	*	*	*	6.52	*	*	*	2.64			
KAHUKU 912	A	4.25	*	*	3.01	.01				*	*	.22	.05			.22	*	*	.30	.04	.03	.03	.10	*	*	.12	.02	.04	.06				
KAILUA FIRE STA 791.3		4.66	1.73	1.80	.01	T									T	.19	.34	.42	T	.04	.01	.02	T	.01	.01	.03	.04	.01	T				
KALIHI RES SITE 777		28.34	*	*	*	15.00	.04	.06			.18	.06			2.26	3.74	2.30	1.24	.30	.82	.40	.22	.04	.08	.04	.20	.60	.36	.04	.16			
KANEOHE MAUKA 781		21.53	1.90	12.60	.05	.40						.40	.10	.03		2.00	1.20	1.44	.14	.22	.27	.06	.06	.05	*	.06	.12	.31	.12				
KANEOHE RANCH 838	A	20.66	2.40	*	11.25	T		T		T	*	.10	.05	.05	T	2.60	2.62	*	.85	.15	.18	.01	*	.09	*	.02	.04	.23	.01	.01			
KAPALAMA 773	A	7.30	*	*	2.00	.60											*	*	.72	.70	.58	.30	*	*	*	1.30	.20	.60	.30				
KAWAIHAPAI 841	A	4.31	*	3.70	.10	.05									.01	.24	*	*	.01	.01			.02	*	*	.02	.02	.10	.03	*			
KAWAI 1K1 INTAKE 880.2	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
KEMOO CAMP 8 855	A	4.95	*	*	4.55	.03						.05	.16	*		*	.01	*	*	*	*	*	.01	*	*	.01	*	.07	.06				
KOOLAU OAM 833		17.58	1.80	8.14	.82	.12	.06	.03				.03				.24	.14	.06	.60	1.43	.43	1.30	.16	1.00	.06	.19	.50	.07	.04	.43			
KUALUAU 804		.63	*	*	.44					*	*	.05	.07				.01			.01		.02	*	*	*	.01	.01	.01	*				
KUALUALEI WTR TUNNEL	A	22.50	*	*	*	*	*	*	*	*	*	*	*	*	*	22.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
LUNALILO HOME 724.2		2.25	.20	*	.32											*	.90	*	.20		.04	*	*	*	.07	.12		.40				
MAKAHA KAI 796	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MAKAPUU POINT 724		2.07		1.29	.04									.02		.17	.23					.05	.02	.04				.21				
MANOA 712		10.92	.64	1.63	1.09	.11						.04				.15	.44	.88	.07	.99	.91	.29	.59	.33	.24	.13	.71	1.13	.55				
MANOA TUNNEL 2 716		27.86	1.68	1.34	.32	.02	.14	.04			.04	.08			1.98	4.72	4.32	2.24	.84	2.20	2.72	.68	.26	.34	.18	.70	1.34	.94	.02	.72			
MOANALUA 770		2.37	.17	.59	.12												.02	.04	.05	.21	.06	.05	*	*	*	.58	.10	.30	*	.08			
NUUANU RES 4 783		12.46	6.04	.88	.10		.34	.04	.02		.06					1.06	1.06	.60	.30	.74	.54	.08	.04	.12	.02	.06	.18	.14		.04			
NUUANU RESERVOIR 5 775	A	12.90	*	*	4.98	.03	T	T	T	*	*	.06				.46	*	*	1.40	1.17	1.68	1.11	*	*	*	.95	.33	.73	T	T			
OPAEULA 870	A	12.25	.65	*	11.00	.10									.05	.45	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
PALOLO VALLEY 718		23.48	1.68	1.26	.16	.04				.04	.04	.16			1.90	5.70	4.22	1.88	.46	1.58	.48	.58	.10	.14	.20	.74	1.06	.56		.50			
PAUOA FLATS 784		29.44	4.36	2.10	.32		.52	.08			.04	.14	.02		1.28	3.44	3.30	1.70	1.44	3.36	2.44	.54	.36	.66	.32	.98	1.38	.60		.06			
PORTLOCK ROAD 724.4		2.82	.78	.07					.01	.01		.04			.39	.36	.28	.18	.11	.05	.21	.08	.07	.02	.03	.04	.01	.01	.03	.04			
PRI WAHIAWA 820.2	A	5.93	*	*	5.54										.01	.05	*	*	T	.03	T	*	*	*	*	.11	.03	.05	.11				
PUNALUU 884	A	-	-	*	2.08	.05	.03			*	*	.02	.10	.03		1.24	*	*	1.25	.12	.16	.10	.23	*	*	.18	.22	.21	.02				
PUNCHBOWL CRATER 709	A	3.50	.15	.49	.53	.01	.01					.03	.03				.01	.01	.03	.34	.24	.21	.11	.51	.11	.08	.15	.30	.15				
ST STEPHENS SEM 788		21.29	1.82	11.43	4.54	T	T	.04				.12	.07	T		1.20	4.28	.88	.13	.22	.25	.04	T	.01	.05	.13	.08	.42	.04	T			
TANTALUS 2 780.5		16.37	1.21	2.52	1.35	.12	.02	.03				.08	.01			.21	.36	.62	.23	1.58	2.02	1.18	.79	*	*	1.58	.85	1.21	.39	.01			
UNIV OF HAWAII 713	A	5.81	*	*	1.56	.04	T			*	*	.03	T			.06	*	*	.70	.72	.43	.12	*	*	*	.67	.43	.63	.42	T			
WAHIAWA OAM 863	A	4.29	*	*	3.70	.07		.01						.01	.02	.05	*	*	*	*	*	*	*	*	*	*	.32	*	*	.11	*			
WAIAHOLE 837	A	33.10	*	*	18.00	.11	.02	.26		*	*	.44	.26	.02		2.47	*	*	7.70	.47	1.13	.17	.24	*	*	.36	.34	.86	.23	.02			
WAIALAE KAHALA 715		1.48	.10	.26	.08	T		T			.01	.02					.03	.13	.02	.06	.04	.01	.06	.03	.02	.05	.08	.30	.18	T			
WAIALAE 847	A	4.77	*	*	4.54	.02	T								.03	.08				T	T					T	T	.07	.03	T			
WAIANAE 798	A	.52	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.52	*	*			
WAIANAE MAUKA 803	A	2.98	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	*	*	1.00	*	*	1.26	*	*			
WAIAWA 836	A	21.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.53			
WAIKANE 885	A	41.25	*	*	22.12	*	*	*	*	*	*	.48	*	*	*	*	*	*	14.75	*	*	*	*	*	*	2.24	*	*	*	1.66			
WAIKIKI 717.2		.83	.10	.06	.20	.01						.04				.02		.02	T	.05	.02	.02	.05	.02	.01	.02	.01	.14	.04				
WAILUPE RESV. 723.2	A	4.63	*	*	*	*	*	1.29	*	*	*	*	*	*	.08	*	*	*	*	*	1.90	*	*	*	*	*	*	*	1.30	.06			
WAIMANALO 794	A	7.05		4.70	.13								.04	.02	.01	.62	*	*	1.00	.03	*	*	*	*	*	.15	.06	.25	.04				
WAIMEA 892	A	9.44	*	*	6.10	.05									.07	.75	*	*	*	1.25	.07	.01	.43	*	*	.38	.03	.12	.18				
WAIPAHU 750	A	1.62	*	*	1.57						*	.01				T	*	*	.01					*	*	.01		.01	.01				
WILHELMINA RISE 721		4.86	.06	.34	.14					.02	.02		.02			.14	.38	.76	.34	.20	.28	.18	.20	.08	.04	.22	.78	.48		.18			

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII
FEBRUARY 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																	
ISLAND OF MOLOKAI																																	
KALAUPAPA 563	A	7.95	1.02	*	*	*	*	*	*	*	*	*	*	*	*	2.56	1.53	*	1.26	.14	*	*	.13	*	*	*	.89	*	.42	*			
KAUNAKAKAI 536	A	.00																															
KEONELELE PENS 551	A	.39			.39																												
KUALAPUU 534	A	3.11		*	.18	.16				*	*	.19					*	*	1.67				*			.05	.25	.11	.19	.31			
MAPULEHU 542		3.86	.93	.76											.27	.25	.25	.07	.09	.10	.02			.17	.03	.37	.15	.22		.18			
MAUNALOA 511	A	.55	*	*	.12											.05											.08	.14	.16				
MOLOKAI AP 524		-	T		.11	.02					T					.34	.30	.23	.01	T					-	.01	.16	.11	.19	.24			
PUUOHOKU RANCH 542.1		3.00	.34	.65											.07	.32	.59		.03				.15	.05	.05	.44	.04	.05		.22			
WAIKOLU 540	A	17.74			6.93							1.35							7.34							2.12							
* * *																																	
ISLAND OF LANAI																																	
KANEPUU 690	A	.48	*	*	*	*	.06	*	*	*	*	*	*	.22	*	*	*	*	*	*	*	.20											
KAUMALAPAU HARBOR 658	A	T																				T											
LANAI CITY 672	A	1.91		T	.03	T						.38				.66	.08	.73					.03										
LANAIHALE 684	A	2.63	*	*	*	*	.18	*	*	*	*	*	*	.26	*	*	*	*	*	*	*	2.12	*	*	*	*	*	*	*	.07			
MANANA 694	A	.29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.29			
MALAUEA 676	A	.39							*	*	*	*	*	*	.39	*	*	*	*	*	*	T											
WAIAKEAKUA 685	A	1.17	*	*	.03	*	*	*	*	*	*	.10	*	*	*	*	*	*	.98	*	*	*	*	*	*	.02	*	*	*	.04			
* * *																																	
ISLAND OF MAUI																																	
AUWAHI-252	A	2.90	*	*	2.00	*	*	*	*	*	*	*	*	*	*	.90																	
HALEAKALA B E S 434	A	24.18	.32	7.93	2.67	1.18										3.14	.60	1.48	.33	1.39	.37	.55	.54	1.50	.50	.07	.79	.35	.36	.11			
HALEAKALA RANCH 432	A	8.61	.03	3.82	.84	.34	*	*	*	*	*	*	*	*	*	1.61	.23	.47	*	.30	.03	.06	*	.41	*	*	.19	*	.28	*			
HALEAKALA RS 338		10.17	.50	2.13	1.80	1.36	T									.07	T	.29	.50	.43	.27	1.70	.13	.17	.10	T	.16	.11	.42	.03			
HALEAKALA SUMMIT 338.4		13.08	1.90	3.43	.62	.37	.05											.08	1.10	1.05	1.15	2.20	1.05	.05	.03		T						
HALIIMAILE 423	A	9.08	.03	*	4.45	.25										.81	*	*	1.51	.34	.08	.09	.24	*	*	.63	.21	.15	.26	.03			
HAMAKUAPOKO 485		9.62	.23	1.77	1.31	.34	T					T			T	.40	1.38	2.18	.11	.32	.41	.14	.06	.12	.21	.05	.22	.26	.09	.02			
HANA 354		8.49	*	*	2.50	.07	.03								.01		1.75	*	1.73	.41	.60	.13	.04	*	*	.78	.21	.22	.01				
HANA AIRPORT 355		14.11	3.38	1.58	2.55	.03	T	T			.04	T	.07			T	2.66	.82	.12	.31	1.08	.25	.11	.05	.32	.32	.20	.20	.02	T			
HANAHULI 281		20.64	8.68	2.10	1.01	.01	.09	.06	T		.10			.11	T	.40	1.39	2.48	.25	.26	2.40	.10	.03	.13	.35	.20	.30	.08	.11				
HOLUA CABIN 259.5	A	12.70	1.90	*	*	*	*	5.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.20	*	*				
HONOKOHAU 480	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
HONOKOHUA 493	A	7.61	*	*	1.74	.51	.02									.28	*	*	3.11	.17	.31	.11	.12	*	*	.32	.62	.23	.07				
HONOMANU GULCH 341	A	15.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.00			
KAANAPALI AIRPORT		-		.60	.13	.07										.06	-	.07	T	.03		T	-	.02				T	.04				
KAHOMA INTAKE 374	A	30.46	*	*	*	20.35				*	*	*	*	*	*	.51	*	*	*	*	*	*	*	*	*	15.60	*	*	*	*			
KAHULUI W8 AP 398	R	3.51	.60	1.54	.22							T			.01	.17	.74	.01	T	.01	T	.02	T	.02	T	.01	.02	.14		T			
KAILILI 436	A	35.29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	35.29			
KAILUA 446		29.14	5.00	7.00	3.32	.99	.05				.02		.02		.01	.52	2.17	2.45	.62	.73	2.39	1.00	.36	.24	.63	.20	.82	.52	.05	.03			
KAUAULA INTAKE 375	A	6.45	*	*	2.13	*	*	*	*	*	*	1.97	*	*	*	*	*	*	.63	*	*	*	*	*	*	1.72	*	*	*	*			
KEAMUA 410		4.96		1.68	.21	.04										.30	.07	.44		.02		.01	.01	.04	T	*	.02	.02	.10	T			
KEANAE 346	A	71.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	71.82			
KEAWAKAPU BEACH 260.2		.05		.02	.03																												
KIHEI 311		.09			.04	T									T	.03				.02													
KIPAHULU 258		24.74	2.35	3.87	1.12	.11						.23			.12	.18	.52	.60	.36	.31	1.98	1.05	.33			.64	.86	.11					
KULA HEIGHTS 323.2		.71		.34	.08	.01										.24		.04														
KULA SANATORIUM 267		.15		.13	.02	T																											
LAHAINA 361		.32		.24												.08																
LAUNIUPOKO INTAKE 376	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
LAUNIUPOKO VILLAGE 372	A	.20		.18	.02																												
LUPI UPPER 442	A	43.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	*	*	*	*	*	*	*	*	*	*	13.20			
MAHINAHINA 466	A	7.18		.68	1.27	.60										.70				.14	.94	.58	.11		.26		.28	.42	.13	.27			
NAKALELE -FLO 60-497	A	4.48	*	*	1.78	*	*	*	*	*	*	.31	*	*	*	*	*	*	1.35	*	*	*	*	*	*	.77	*	*	*	.27			
OLINDA 332	A	7.02	*	*	4.49	.54	.01						T			.71	*	*	*	.40	.06	*	*	*	*	*	.06	.19	.50	.06			
OLOWALU 296		.34		.06								.28																					
OLOWALU GULCH 377	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
PAAKEA 350		65.04	10.44	11.15	3.14	1.22	.02		.02		.03		.03		.04	5.88	7.65	10.80	.04	1.91	5.10	1.96	.61	.33	1.29	.48	1.90	.45	.41	.14			
PAIA 406		4.75	.01	1.32	.90	.15										.28	.42	.96	.02	.12	.04	T	.03	.08	.07	.02	.08	.15	.09	.01			
PANIEHULU 259.2	A	30.75	*	*	*	*	*	*	1.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.50			
PAUWELA 490	A	15.48	*	*	5.56	.52				*	*	.03				.33	*	*	5.92	.52	.61	.32	.11	*	*	.68	.33	.42	.13				
POHAKEA BRIDGE 307.2	A	1.48	*	.24	.04	*	*	*	*	*	*	*	*	*	*	.08	.04	1.02	.01	*	*	*	*	*	*	*	*	.01	.04	*			
POLIPOLI SPRINGS 267.2	A	31.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	28.00	*	*	*	3.70			
PUOMOKAMOA 2 343	A	68.00	*	*	*	*	68.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
PUU KUKUI MAKAI 472	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
PUUNENE 396		1.99		.87	.07	.11										.08	*	*	.68	.02								.05	.11				
SPRECKELSVILLE 400.2		4.10		2.20	.53	.11	T								T	.17	.18	.54	.01	.02			.06	.04	.02	.02	.02	.07	.10	.01			
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	6.18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.18			
UKUMEHAME 301	A	.50		.25		.10						.15																					
ULUPALAKUA RANCH 250		.89			.44							.09															.36						
WAHIKULI 364	A	1.08		.57	.07	.03										.13						.18		.10									
WAIEHU CAMP 484	A	5.40	*	1.35	.26	.23	*	*	*	*	*	*	*	*	*	.14	.61	2.18	.01	.05	*	*	*	.04	.01	.01	.18	.32	.01				
WAIHEE VALLEY 482	A	6.94	*	1.51	.53	.38	*	*	*	*	*	*	*	*	*	.13	1.09	2.58	.04	.07	*	*	*	.05	.06	*	.35	.12	.03				
WAIKAMOI 449	A	58.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.05			
WAIKAMOI OAM 336	A	-	-	-	-	-	.06	.01	T	*	*	.27	.01			3.36	*	*	*	6.13	1.81	*	*	*	*	*	3.05	1.12	1.70	.61			
WAIKAPU 390	A	4.48	*	.94	.23	.25	*	*	*	*	*	*	*	*	*	.22	.55	2.03	.01	*	*	*	*	*	*	*	.02	.07	.16	T			
WAILUKU 392		3.82		.98	.10	.13	.01					.02	.04	.01		.09	*	2.06	.02	.02	.01				T	.03		.21	.09				
WAIOPAI RANCH 256	A	8.61	*	*	6.63					*	*	.57								*	*	*	1.41										
* * *																																	
ISLAND OF HAWAII																																	
AHUA UMI 75	A	2.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.40			
AWINI 182.1	A	39.61	*	*	3.35	3.67	.11			*	*	*	*	*	*	*	*	*	23.31	*	*	3.83	.30	*	*	*	4.64	.40	*	*			
EAST HONOKANE 183.2	A	25.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.00			
HAINA 214		24.54	.23	.60	1.31	1.84	.03						.02			.62	6.24	5.22	.38	1.78	1.70	.62	.23	.81	.30	.75	.17	.22	.65	.82			
HAKALAU 142		49.14	9.90	10.70	7.98	.09	.14	.61			.02		.10			.20	2.12	6.45	1.33	3.06	1.20	1.34	1.04	.13	.16	.03	.80	.61	.30	.83			
HALEMAUMAU 52	A	10.34	*	*	*	*	*	*	*	*	*	*	*	1.88	*	*	*	*	*	*	*	*	6.55	*	*	*	*	*	*	1.91			
HALEPIULA 117	A	7.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.11			
HALEPOHAKU 111	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
HAWAII VOLCNS NP HQ 54		28.37	1.78	1.20	1.22	1.93	.18	.59	.22	.19	.12	.06	.01			.54		.96	1.01	1.93	3.45	3.82	2.52	2.13	1.80	.34	.79	.14	.65	.79			
HAWI 168	A	10.74	*	*	1.01	.39	.02		.05				.02			.93	*	*	3.83	1.00	1.03	.25	.17	*	*	1.04	.45	.02	.06	.47			
HILO W8 AIRPORT 87	R	43.66	10.60	7.34	1.09	.13	.57	.53	.08	.03		.01	T	T	.23	2.47	5.31	2.40	1.95	3.94	1.63	.42	1.14	.09	.60	.70	.50	.34	.40	1.16			
HOLUALOA 70	A	3.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.25			
HOLUALOA BEACH 68	A	.00																															
HONAUNAU 27		1.24	.01					.01		.02	.01			.02	T	.04	.15	.30	.20	.32	.02	.01	T		.02	.04	.02	.02	.01	.02			
HONOHINA 137		54.59	10.30	10.00	7.35	.05	.57	.85	.02	.01	.02		.12			.28	3.14	8.18	1.00	3.00	3.80	1.98	1.74	.12	.22	.05	.63	.35	.19	.62			
HONOKANE 181.1	A	36.70	*	*	2.75	4.46	.09	.03		*	*	*	*	.05		1.17	*	*	16.50	2.93	1.04	1.63	.42	*	*	*	5.63	*	*	*			
HONOMAUKA 138		81.55	12.00	11.40	6.72	.38	.31	2.26	.05	.19	.28	.01	.25	.01		.37	10.88	10.53	1.15	5.81	4.95	3.79	2.48	1.18	1.00	.94	1.38	1.03	.85	1.35			
HONUAULA 71	A	4.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.70			
HUALALAI 72	A	5.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.40			
HUEHUE 92.1	A	1.83	*	*	*	*	*	*	.86	*	*	*	*	*	*	*	*	*	.97	*	*	*	*	*	*	*	*	*	*	*			
KAALA IKI 12	A	5.51	.33	.22	.06			.27	.14	.22	.17	T	.09		.06	.36	.20	.21	.31	.18	2.32	.30	.04				.03						
KAAWALOA 29	A	1.06				.11	.02		*	*	.04	T	*	.01	T	*	*	*	.61	.16	.01		*	*	*	.10	T						
KAINALIU MAUKA 73.2		1.08				.02	T		.01		.06			.05	.03	.04	.30	.17	.14	.22	T				.04		T	T					
KALAPANA NO 1 67.8		22.25	4.70	3.25	3.79	.14	T	*	*	*	*	*	*	*	*	*	*	1.34	*	*	*	7.42	.73	*	*	*	*	*	*	.88			
KAMAOA NO 2 5	A	.56	*	*	*	*	*	*	*	*	*	*	.56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
KAMUELA 192.2		4.34	.03	.02	.05	.87	.02				.08		.04	.02		.12	.78	.70	.40	.05	.03	.03		.06	.04	.03	.31	.08	.46	.12			
KAMUELA AIRPORT 191		1.31	T	T	.02	.35		T	.01	T	.12	.02	.01	.02	T	.02	.20	.17	.04	.01	T	T		T		T	.01	.05	.20	.06			
KAPAPALA RANCH 36	A	5.48	*	1.48	.85	*	*	*	.12	*	*	.85	.25	.63	.78	*	*	.20	.18	*	.04	.10	*	*	*	*	*	*	*	*			
KAPOHO LANDING 93.5	A	30.42	*	*	*	*	*	*	17.60	*	*	*	*	*	*	.32	*	*	*	*	*	10.36	*	*	*	*	*	*	*	2.14			

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		70.10	11.53	7.60	4.65	4.14	.26	1.93	.06	.24	.15					.03	6.00	6.81	2.67	3.44	6.46	5.53	2.28	1.20	.44	.71	1.15	.53	1.18	1.11			
KAWAINUI LOWER 193	A	38.47	*	*	*	*	*	*	6.67	*	*	*	*	*	*	11.55	*	*	*	*	*	*	13.45	*	*	*	*	*	*	6.80			
KEAAU 92		50.19	9.94	8.09	5.09	1.23	.15	1.64	.07	.12	.03		.08			.25	4.77	5.26	2.21	3.40	2.53	.86	.83	.41	.15	.06	1.32	.49	.72	.50			
KEALAKEKUA 26.2		1.45				.08	.21		T		T			T	T	T	.26	.36	.27	.13					.14		T	T	T			
KEHENA 181.2	A	23.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23.75			
KIOLAKAA A & F 6	A	5.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.70	*			
KIPA 89.2	A	75.72	11.00	7.86	4.10	4.71	.35	1.81	.10	.44	.24				.01	.08	7.30	4.35	2.79	4.60	10.15	3.30	2.65	2.25	.74	1.08	1.55	.79	1.47	2.00			
KOHALA 179.1	A	9.97	*	*	1.40	.22	.03		.01				.02			.80	*	*	3.23	1.20	.92	.27	.06	*	*	.83	.42	.01	.07	.48			
KOHALA MAUKA 176	A	22.70	*	*	1.82	.78	.06	.01	.04				.05			.96	*	*	11.73	.91	1.07	.64	.12	*	*	2.34	.77	.08	.33	.99			
KOHALA MISSION 175.1		14.76	.47	.55	.82	.53	.04		.01			.01	.03			1.21	2.33	2.15	.44	1.27	1.43	.34	.17	.55	.40	.45	.67	.01	.17	.71			
KOIAWE LOWER 196	A	19.77	*	*	*	*	*	*	4.76	*	*	*	*	*	*	4.88	*	*	*	*	*	*	4.30	*	*	*	*	*	*	5.83			
KONA AIRPORT 68.3		2.56				.02				T		T					T		.32	1.25	.90		T			T	T			.07			
KONA VILLAGE 93.8		.30							.10		.20																						
KUKAIAU 222		49.02	2.32	2.00	2.86	2.16										.37	9.27	8.91	.51	3.21	5.88	2.13	1.06	2.40	.98	1.18	.98	.42	.92	1.46			
KUKUIHAELE MIC 199		13.79	.05	.35	.40	1.49	.44						.07			.65	2.31	2.15	.92	.45	.73	.71	.15	.51	.15	.52	.31	.21	.51	.71			
KUKUIHAELE MILL 206	A	15.84			.87	1.25	.02						.03			.38	*	*	9.74	.59	.53	.35	.17	*	*	.62	.24	.13	.42	.50			
KULANI CAMP 79		35.90	1.80	1.94	1.32	3.17	.17	.29	.14	.12	.03	.05					1.20	1.33	1.40	2.10	4.38	4.94	3.70	3.95	1.09	.43	.60	.21	.74	.60			
KULANI MAUKA 76	A	11.78	.37	.96	1.19										*	*	*	*	3.00	.98	1.32	1.00	1.30	.39	.10	.07	.16	.37	.10	.47			
KULANI SCHOOL SITE 78	A	30.07	.97	*	*	*	*	*	*	5.80	*	*	*	*	*	.50	*	*	*	*	*	*	*	*	*	*	*	*	*	22.80			
LANIHAU 68.2		5.96				1.53	.04			.04	.21	.11			.04	.11	.17	.33	2.38	.88					.12								
MANUKA 2	A	2.05				.08				*	*	.04					*	*	1.50	.39							.04						
MAUNA KEA BEACH 98		.49									.04	.45																					
MAUNA LOA SLOPE 085		1.45	.05	.11	.06		T										.34	.33	.17	.01	.35	.02	.01										
MIOOLE HOLUALOA 68.1	A	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02			
MIOOLE PEN 147.1	A	.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.26	*	*	*	*	*	*	*	*	*	*			
MOAULA 18	A	2.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.50			
MOUNTAIN VIEW 91		60.66	7.89	6.37	3.90	3.07	.35	1.20	.35	.52	.11	.03	.02			.19	4.54	5.08	2.11	2.79	7.55	4.76	2.53	2.09	.77	.33	1.61	.21	.97	1.32			
NAALEHU 14	A	5.59	*	*	.92	T		.35	.03	.36	.01	T	T		.02	.03	.04	.04	.16	.17	2.74	.68	.02				.02						
NAPOOPOO 28	A	.57				*	*	*	*	*	*	.05	*	*	*	*	*	*	.33	*	*	*	*	*	*	.19	*	*	*	*			
NAULU FOREST 38.6		16.19	2.75	1.65	1.15	.25	T	*	*	*	*	*	*	*	*	*	*	.62	*	*	*	8.36	.91	*	*	*	*	*	*	.50			
NIULII 179	A	12.85	*	*	1.76	.48	.04						.01			.86	*	*	3.87	1.40	1.11	.30	.22	*	*	.94	.57	.02	.31	.96			
OOKALA 223		49.24	4.61	5.03	4.32	1.30	.07	.06								.13	8.25	8.55	.45	3.75	4.20	2.12	1.21	1.35	.50	.64	.61	.56	.93	.60			
OPIHIHALE 2 24.1		1.90			.01			.07	.02	.08	T		T	.25	.04	.33	.07	.54	.19	T						.29	.01						
ORCHID LAND EST 91.5	A	48.74	*	*	*	*	*	*	23.20	*	*	*	*	*	*	.22	*	*	*	*	*	21.10	*	*	*	*	*	*	*	4.22			
PAAUHAU 217		21.21	.18	.66	1.22	1.18	.01									.43	5.62	4.50	.26	1.34	1.74	.63	.27	.71	.25	.67	.15	.25	.59	.55			
PAAUILO 221		41.69	1.08	1.30	2.24	2.53										.55	8.63	8.19	.42	2.56	4.64	1.59	.69	2.10	.72	.91	1.05	.33	.82	1.34			
PAHALA 21		4.07	.63	.27	.03			.04		.22	.10	.02					.14	.31	.23	1.07	.96	.02	.01				.02						
PAHOA 65		46.75	10.57	8.61	5.41	1.38	.21	.57	.11	.25	.05	.02	.03			.04	4.30	4.84	1.92	2.21	1.86	1.07	.39	.55	.20	.09	.38	.42	.36	.91			
PAKAO 37	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
PAPAIKOU 144.1		52.24	11.43	8.73	5.41	.20	.32	1.11	.05	.08	.13		.06		.02	.06	4.00	5.72	1.35	3.73	1.95	1.35	1.59	.56	.90	.12	.81	.72	.92	.92			
PAPAIKOU MAUKA 140.1		75.20	10.97	8.89	4.92	2.23	.39	1.36	.14	.30	.19		.01		.09	.22	9.50	7.40	2.25	4.50	7.60	2.00	3.80	1.03	1.15	.84	1.96	.72	1.25	1.49			
PEPEEKEO MAKAI 144		52.06	2.00	11.50	7.35	.04	.07	1.37		.03	.04				.06	.18	2.22	5.97	1.26	3.53	1.10	1.20	1.53	.12	.14	.06	.65	.52	.27	.85			
PIIHONUA 89	A	48.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	48.00			
POHAKULOA 107	A	.83		.01													.01	.60	.13	.07	*	*	.01										
PUAKO 95.1	A	.21							.09		.03	.08		.01																			
PUU KIHE 120	A	7.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.68			
PUU LAAU 102.1	A	.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.68			
PUU LEHUA 73	A	2.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.10			
PUU MALI 113	A	1.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40			
PUUOKUMAU 167	A	21.33	*	*	.73	.82	.02		.21	*	*	.02	.03			1.43	*	*	11.44	.78	.40	.20	.71	*	*	1.95	.81	.18	.64	.96			
PUU OO 82		28.42	1.10	1.35	1.55	2.15	.10	.16	.06	.10	.09	.04	.02			.01	.60	.47	1.30	1.62	3.35	4.75	3.56	3.45	1.03	.11	.46	.12	.24	.63			
PUU WAAWAA 94.1	A	.18				*	*	*	*	*	*	*	*	*	*	.13			.05														
SADDLE ROAD 1 84	A	47.56	*	*	*	*	*	*	23.00	*	*	*	*	*	*	.56	*	*	*	*	*	*	*	*	*	*	*	*	*	24.00			
SOUTH POINT CORRAL 3	A	2.61	.39	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.22	*	*	*	*	*	*			
UMIKOA 118		24.75	*	*	1.15	3.93			.01						.03	.18	5.03	5.55	1.39	.36	.93	1.28	.28	*	*	1.38	.56	.08	*	2.61			
UPOLU POINT USCG 159.2		6.81	.12	.26	.40	.37			.03					.02		.30	.73	.80	.11	.81	.45	.21	.60	.36	.37	.22	.20		.02	.43			
WAIAKEA SCS 88.2		64.85	11.29	6.45	4.48	3.41	.20	1.65	.07	.28	.10		.02			.05	6.56	5.87	2.86	2.25	9.56	2.78	1.68	1.24	.95	.11	1.13	.21	.93	.72			

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
							2 AM	8 AM	2 PM	8 PM									
HILO, HAWAII, WB AIRPORT	13	1.1	7.0	23	E	21	89	86	77	85	2	4	5	5	5	6	27	20	8.5
HONOLULU, OAHU, WBFC	6	13.2	15.3	40	NE	21	79	79	64	77	11	9	1	0	0	0	21	55	7.7
KAHULUI, MAUI, WB AIRPORT	5	12.0	14.0	36	E	21	82	82	67	78	6	7	3	2	1	0	19	63	6.5
LIHUE, KAUAI, WB AIRPORT	6	11.5	14.0	30	NE	21	85	84	79	81	9	8	7	0	0	0	24	22	8.8

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	60	61	61	64	62	69	74	70	68	68	67	69	64	59	57	56	60	66	65	63	59	64	65	61	58	60	62	67				63.5
	MIN	54	57	54	52	53	50	51	50	56	58	58	58	55	51	51	51	51	52	53	55	54	54	52	54	50	50	47	48				52.8
KILAUEA POINT 1133	MAX	74	77	75	76	76	78	78	82	88	75	85	82	67	77	70	71	72	74	75	76	72	75	75	74	72	73	74	75				75.6
	MIN	64	66	60	70	62	71	67	65	69	70	70	67	63	58		68	64	69		66	65	60	60	63	60	63	69	67				65.2
LIHUE WB AP 1020.1	MAX	75	75	74	75	75	78	78	78	78	77	79	81	72	73	68	70	71	75	75	73	72	75	75	73	72	73	74	74				74.6
	MIN	67	69	68	68	70	69	66	65	65	68	70	68	63	62	63	64	66	67	69	68	66	69	65	63	64	65	66	66				66.4
MAKAHUENA POINT 940.1	MAX	78	75	78	76	78	78	83	78	80	85	80	85	85	79	76	71	72	75	78	75	75	74	75	78	78	80	81	77				78.0
	MIN	68	69	72	66	67	67	58	64	68	69	70	70	69	66	65	59	63	63		69	67	70	63	59	65	67	62	68				66.0
MANA 1026	MAX	81	74	79	80	80	80	83	83	84	84	85	84	84	75	81	80	79	82	84	85	82	82	83	84	81	82	82	83				81.6
	MIN	65	64	64	60	62	62	64	67	68	68	68	71	68	61	61	59	58	61	63	63	63	63	60	59	57	59	58	56				62.6
NIU RIDGE 1035	MAX	77	78	78	79	78	79	78	79	80	80	80	79	80	80	80	78	77	79	78	79	79	78	80	80	80	81	79	80				79.0
	MIN	56	57	58	57	56	60	60	60	60	60	61	60	64	63	64	60	57	60	59	58	61	59	60	62	54	60	55	60				59.3
WAIAHI LOWER 1054	MAX	72	73	73	74	73	75	75	79	79	77	81	83	81	79	70	65	69	71	72	71	73	75	75	74	79	71	75	76				74.6
	MIN	59	60	63	60	61	65	59	60	61	64	66	65	62	64	64	63	60	63	65	66	61	62	63	60	60	61	61	61				62.1
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	80	78	78	79	80	84	82	83	84	84	80	85	85	78	75	76	75	78	79	79	79	78	80	78	75	77	77	80				79.5
	MIN	66	67	69	64	65	68	63	64	64	67	66	68	65	67	66	65	67	66	67	71	70	70	66	64	63	65	67	61				66.1
HONOLULU WBFC 703	MAX	79	78	79	81	82	83	84	81	80	85	81	82	81	78	75	77	75	81	81	79	79	79	82	81	77	77	78	81				79.9
	MIN	66	69	69	68	68	68	65	66	71	68	68	71	69	68	67	67	67	68	69	70	68	68	68	67	66	65	68	66				67.8
HONOLULU SUBSTA 704	MAX	77	75	76	77	79	80	79	79	78	79	80	81	78	72	71	73	72	76	76	76	75	74	78	75	72	73	75	77				76.2
	MIN	69	70	69	68	70	68	68	68	70	68	69	69	68	66	66	66	66	68	70	69	65	66	67	66	65	64	66	66				67.5
KAHUKU 912	MAX			78	75	78	78	80			83	82	80	82	81			72	74	75	76	75			78	76	74	75	76				77.4
	MIN			66	69	70	72	66			67	69	68	65	67			65	68	68	70	68			66	67	66	65	68				67.5
KANEOHE MAUKA 781	MAX	74	72	75	75	76	75	80	80	79	81	77	80	80	81	69	68	70	71	73	74	74	74	73	72	74	72	72	75				74.9
	MIN	68	69	66	69	70	70	67	66	69	68	63	66	68	65	64	65	65	70	68	70	71	70	71	67	68	61	61	64				67.1
LUALUALEI 804	MAX	80	83	77	78	80	81	82	84	80	82	82	82	82	81	74	74	78	75	77	79	78			79	78	77	77	79				79.2
	MIN	66	70	71	69	68	70	65	66	69	68	68	68	67	68	69	67	68	67	73	70	70			69	68	67	67	68				68.3
MAKAPUU POINT 724	MAX	74	74	71	74	74	75	78	77	81	80	83	79	84	71	77	76	69	76	72	79	78	74	76	74	81	70	79	80				76.3
	MIN	65	68	68	66	70	71	71	70	71	71	71	71	70	67	68	67	66	67	69	69	69	67	68	68	69	65	69	69				68.6
OPAEULA 870	MAX	73	68	70	70	73	76	82	83	82	82	83	76	80	79	64	66	64	68	72	66	67	67	70	66	64	65	66	68				71.8
	MIN	63	64	64	63	64	65	62	64	62	65	64	64	64	61	59	59	60	61	60	62	61	61	61	59	58	58	60	58				61.6
PRI WAHIAWA 820.2	MAX	78	69	79	75	78	80	82	82	82	83	83	83	83	78	75	72	75	75	78	78	74	75	71	79	77	72	74	79				77.5
	MIN	64	65	64	63	65	65	60	60	62	60	64	64	63	63	64	64	63	63	64	68	65	65	66	62	62	62	63	60				63.3
WAIALUA 847	MAX	79	70	77	75	78	80	85	85	81	82	83	82	85	80	70	71	73	74	77	80	76	77	75	78	75	75	74	75				77.6
	MIN	69	67	67	59	61	62	61	62	66	68	66	67	65	65	66	65	66	62	63	67	68	69	69	65	61	59	64	57				64.5
WAIKIKI 717.2	MAX	80	80	80	78	79	83	85	83	85	82	83	85	86	84	78	75	76	76	80	80	80	80	78	81	80	77	78	78				80.4
	MIN	68	70	69	69	71	70	65	66	69	67	69	70	67	69	67	66	65	67	70	70	65	65	68	67	67	65	64	68				67.6
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	77	74	73	75	77	80	80	81	79	78	80	82	83	80	73	69	72	71	77	77	72	76	75	77	75	71	73	76				76.2
	MIN	65	69	65	65	65	65	62	64	66	65	66	67	68	65	63	66	63	64	67	65	67	66	67	67	64	63	64	63				65.2
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	74	77	70	73	75	76	80	75	74	76	75	74	76	77	71	77	67	68	71	74	71	74	72	73	73	74	73	72				73.6
	MIN	61	63	63	60	63	60	64	64	63	65	64	63	64	65	57	62	59	61	62	59	60	60	61	60	59	61	62	60				61.6
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	57	57	55	53	61	62	65	65	65	62	65	68	68	66	60	55	53	49	59	57	57	55	54	58	55	54	50	55				58.6
	MIN	48	48	47	41	41	44	47	48	48	48	49	49	46	46	45	44	39	42	47	43	43	42	43	38	38	38	37	33				43.6
HALEAKALA SUMMIT 338.4	MAX	45	60	47	44	52	55	55	55	59	55	59	60	60	57	56	46	43	41	41	40	40	43	49	49	48	47	41	43				49.6
	MIN	37	37	38	34	39	42	40	40	43	42	44	41	40	40	39	34	27	34	33	32	32	30	29	33	28	29	35	35				36.0
HANA AIRPORT 355	MAX	75	73	74	78	80	80	79	80	80	80	81	81	82	84	72	70	72	74	75	76	76	78	75	76	74	71	74	75				76.6
	MIN	67	68	66	66	69	72	71	72	66	66	69	68	68	68	64	65	64	66	68	69	69	70	67	66	65	65	66	68				67.4
KAANAPALI AIRPORT	MAX	82	83	78	74	80	82	82	82	83	80	82	82	82	82		72	74	74	79	82		82	79	80	77	76	77	77				79.3
	MIN	69	69	68	66	64	65	65	67	68	67	66	66	69	67		65	67	67	67	67		64	69	67	66	66	67	69				66.8
KAHULUI WB AP 398	MAX	83	80	76	80	84	84	84	83	81	81	84	82	83	73	69	74	77	79	80	80	80	78	80	77	78	77	78	80				79.5
	MIN	65	69	69	69	56	63	61	65	65	66	64	63	67	66	66	65	67	67	67	70	69	68	67	66	64	63	64	64				65.4
KAILUA 446	MAX	71	69	69	69	79	75	75	77	73	79	80	80	80	82	66	67	67	68	68	75	70	70	70	72	70	69	69	70				72.5
	MIN	65	65	65	63	62	66	63	64	64	64	66	64	65	65	61	61	60	64	64	65	64	64	62	62	59	61	62	61				63.3
KEAWAKAPU BEACH 260.2	MAX	87	85	85	86	87	84	84		87	85	85	83	85	88	79	76	78	82	86	87	86	87	85	86	85	86	85	84				84.6
	MIN	64	65	66	59	58	63	62		66	64	65	66	64	69	66	65	62	62	63	65	62	63	59	57	59	56	55	55				62.2
KULA SANATORIUM 267	MAX	72	71	69	70	70	72	72	70	69	70	70	71	70	72	70	71	68	69	70	69	70	71	70	68	68	70	70	67				70.0
	MIN	54	61	59	57	50	52	55	56	58	55	56	57	60	60	55	55	55	56	59	58	55	55	52	51	52	50	47	48				54.9
LAHAINA 361	MAX	82	84	83	84	81	82	82	82	82	83	84	83	84	85	83	83	81	80	83	82	83	83	83	83	82	81	80	81				82.5
	MIN	66	67	69	63	63	65	65	66	67	67	67	67	67	69	65	66	70	67	66	67	70	68	65	64	63	62	62	65				66.0

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
WAILUKU 392	MAX	80	79	74	74	80	82	82	83	82	85	83	85	84	87		70	70	75	78	80	76	79	78	80	74	78	74	77				78.9
	MIN	69	69	68	68	65	67	65	66	65	66	67	68	67	68		65	65	67	67	70	68	70	67	67	66	64	65	66				66.9
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	76	80	74	72	78	77	79	77	80	80	80	83	81	83	72	68	70	72	74	77	75	71	76	70	77	75	72	76				75.9
	MIN	63	64	64	62	63	62	60	61	63	61	63	63	64	64	63	60	59	60	61	63	61	61	62	59	59	60	61	59				61.6
HAWAII VOLCNS NP HO 54	MAX	60	61	63	60	64	66	59	63	65	65	69	72	73	70	68	62	57	55	58	59	58	57	58	59	63	55	59	60				62.1
	MIN	54	56	55	51	50	53	53	53	54	52	56	51	51	55	57	54	50	50	53	53	52	52	52	48	46	47	47	50				52.0
HILO WB AIRPORT 87	MAX	74	72	78	80	78	79	79	82	85	82	84	85	83	78	73	74	70	73	77	78	81	79	80	80	76	77	77	78				78.3
	MIN	67	68	68	65	64	68	66	66	67	64	68	68	69	69	68	64	64	64	68	68	64	68	65	62	65	65	65	65				66.1
KAINALIU 73.2	MAX	78	79	76	80	76	77	77	78	76	75	78	77	76	78	76	75	74	70	77	78	75	79	76	78	71	75	77	71				76.2
	MIN	62	60	64	65	60	59	62	62	62	60	64	63	63	63	63	63	62	60	61	63	62	61	61	60	61	60	59	58				61.5
KAMUELA 192.2	MAX	70	71	69	68	68	74	78	76	75	74	71	76	75	78	67	68	67	62	67	68	68	67	67	64	67	68	67	68				69.9
	MIN	56	55	55	54	54	53	53	50	54	54	55	58	58	58	55	58	54	52	54	54	53	55	55	54	53	54	53	53				54.4
KAMUELA AIRPORT 191	MAX	70	71	69	68	68	75	74	74	74	75	74	72	72	77	69	68	62	63	69	70	68	68	68	69	70	68	66	67				69.9
	MIN	57	59	42	42	43	54	49	48	56	53	40	49	56	59	51	54	50	45	46	55	53	42	46	38	36	44	56	55				49.2
KEAAU 92	MAX	75	75	75	76	80	76	77	84	84	84	80	84	85	84	75	73	75	69	73	77	76	79	79	79	81	74	75	78				78.0
	MIN	65	65	65	63	62	63	65	63	63	63	63	65	66	66	61	61	61	62	65	65	64	60	60	60	61	61	62	62				62.9
KEALAKEKUA 26.2	MAX	80	79	77	82	77	77	78	78	74	77	76	75	78	77	78	77	73	72	77	78	77	80	74	79	78	76	77	72				76.9
	MIN	62	61	64	64	60	61	63	61	63	62	62	64	64	64	63	63	63	61	62	63	63	63	61	59	62	61	60	60				62.1
KOHALA MISSION 175.1	MAX	74	75	73	71	76	77	78	78	80	79	80	80	81	82	69	67	68	71	73	75	75	71	74	71	75	72	71	74				74.6
	MIN	66	65	66	65	65	67	64	63	64	65	66	69	67	68	65	63	62	63	65	66	65	65	64	64	62	63	63	62				64.7
KONA AIRPORT 68.3	MAX	82	83	82	80	82	82	82	81	82	81	78	82	78	81	81	84	80	76	78	80	79	82	82	82	79	78	80	79				80.6
	MIN	61	62	65	67	67	69	64	64	64	66	64	66	66	64	63	65	65	66	68	64	63	65	64	64	61	66	61	61				64.5
KULANI CAMP 79	MAX	59	60	58	57	62	62	58	61	62	60	65	70	70	68	64	62	62	62	56	57	54	57	54	55	58	54	58	56				60.0
	MIN	51	38	52	48	45	49	46	38	46	48	48	48	47	52	51	53	47	46	50	49	42	43	47	44	45	42	42	46				46.5
MAUNA KEA BEACH 98	MAX	90	84	84	91	85	84		92	82	81	84	82	84	84	88	87	84	81	89	86	90	89	86	91	91	89	91	89				86.6
	MIN	69	70	74	70	66	69		67	70	65	70	73	70	55	71	72	71	71	72	74	75	73	73	70	70	69	68	69				69.9
MAUNA LOA SLOPE 08S	MAX	49	46	44	45	48	53	51	53	55	53	57	58	56	52	50	43	41	45	46	45	47	50	49	46	48	47	48	47				49.0
	MIN	34	32	37	34	32	35	35	37	38	38	39	40	37	38	36	34	32	32	34	34	33	36	32	31	29	29	28	27				34.0
MOUNTAIN VIEW 91	MAX	69	70	69	69	72	72	69	70	73	77	78	79	80	78	72	72	72	64	67	68	69	69	71	70	73	67	68	70				71.3
	MIN	61	62	62	60	57	58	60	59	62	58	57	62	61	63	63	61	57	58	61	62	59	61	58	56	56	56	56	61				59.5
NAALEHU 14	MAX	78	79	79	78	77	78	76	76	76	81	79	79	80	80	79	79	79	71	76	74	76	76	77	77	77	75	77	77				77.4
	MIN	66	65	65	65	67	65	65	65	65	65	68	68	68	67	64	64	64	63	64	65	64	64	64	64	63	64	62	64				64.9
OOKALA 223	MAX	75	75	74	73	77	76	77	80	82	80	81	79	81	81	70	69	65	71	72	73	74	72	75	73	78	74	73	76				75.2
	MIN	65	65	65	65	65	67	66	65	66	65	65	65	70	69	67	65	64	62	64	65	67	64	62	63	63	62	64	65				65.0
OPIHIHALE 2 24.1	MAX	78	76	78	78	79	75	73	74	75	75	77	77	73	73	75	72	71	75	78	75	78	74	75	76	77	77	73	75				75.4
	MIN	59	60	61	53	58	59	60	59	59	59	61	65	62	63	62	61	59	60	60	60	59	58	57	57	56	56	55	55				59.0
PAHALA 21	MAX	78	78	77	77	78	77	72	75	75	79	77	79	80	79	78	76	75	71	74	74	77	78	77	78	77	76	83	79				76.9
	MIN	64	64	67	61	62	65	61	60	63	64	63	62	62	64	65	63	63	62	63	65	63	65	66	64	60	59	54	56				62.5
UPOLU POINT USCG 159.2	MAX	77	78	78	76	78	78	79	85	80	80	79	83	85	79	72	84	69	75	75	77	78	73	76	72	76	76	76	76				77.5
	MIN	67	68	68	67	68	68	68	68	71	69	69	68	71	69	67	65	64	63	69	67	67	69	67	65	66	67	66	62				67.3

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.22	.01	.14	.20	.21	.13	.15	.15	.13	.11	.12	.11	.25	.10	.15	.15	.18	.15	.16	.20	.23	.20	.23	.26	.23	.17	.21	.23				4.78
	WIND	45	21	49	63	46	24	13	19	10	14	18	12	48	20	36	67	76	61	48	65	88	96	84	54	53	52	70	50				1302
	MAX	84	87	82	81	82	82	91	87	88	90	87	86	94	90	85	77	80	76	84	82	80	81	82	85	85	82	80	83				84.0
	MIN	68	68	67	62	64	65	67	67	68	70	69	70	66	65	65	64	63	63	64	66	66	65	64	64	63	64	61	60				65.3

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP	SPECIAL	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUGAR CO.
ANAHOLA 1111	A 0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1	0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	01	HANALEI	1	22 09	159 34	690		WI		S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	400		7A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A			KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOU	1	22 08	159 22	800		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A			LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A			KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO.
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A			HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M + M 1001	6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROS. 1 83	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1135	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	6893	01	LIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
OH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1 40	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1 13	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1 04	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1 55.1	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 730	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A 8949	02	KOLOA	2	21 58	159 31	2100		MO			MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1 65	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 57	159 41	20		8A			WAIMEA SUG MILL CO
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.2	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 767	A 0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565					J. L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			EWA PLANTATION CO
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 887	1384	05	WAIALUA	5	21 33	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST + GEODETIC
*HONOLULU WBF 703	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2263	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIAHOLE WTR CO LTD
KAHUKU 912	A 2470	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.1	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10					GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A 3741	05	WAIALUA	5	21 34	157 59	1180		WI			WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3	3825	02	KOOLAUPOKO	1	21 40	158 00	1050				C	HAWAII NATIONAL GUARD
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C + F OFFICER HEOG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A 5650	04	WAIANAE	4	21 29	158 08	1500		WI			U S NAVY
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LUM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A 5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA VALLEY 80 .1	A 5781	04	WAIANAE	4	21 29	158 12	160		8A		C	CLOSED 2/26/69
MAKAHA PUMP 8 0.2	A 5782	4	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	613	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 77	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM.
NUUANU RE 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 87	A 7153	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLAT 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1	7933	03	EWA	3	21 25	157 58	240				C	JAMES MUMENO
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO. JR.
PRI WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788	8640	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 8[illegible]	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 84[illegible]	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 795	A 9231	04	WAIANAE	4	21 27	158 11	20		8A			CAPITAL INVEST CO
WAIANAE MAUKA 8 3	A 9230	04	WAIANAE	4	21 29	158 09	1575		WI			CAPITAL INVEST CO
WAIAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIAHOLE WTR CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 5[illegible]	760		WI			WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE RESV. 723.2	A 9495	02	HONOLULU	2	21 18	157 45	170		WI			BOARD OF WTR SUPPLY
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO 794	A 9521	01	KOOLAUPOKO	1	21 21	157 44	60		8A			ST DIV WTR + LAND DLV
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	420		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 7.1	9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6	3046	01	MOLOKAI	1	21 04	156 52	60				C	W. J. CARSTEN
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSPITA
KOLELELE PEN 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		WK			MOLOKAI RANCH. LTD.
KUALAPUU 534	A 4778	1	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL + LIBBY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
ISLAND OF MOLOKAI												
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		1W		C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 53	157 00	1640		WI		C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI		C	DOLE COMPANY
MAHANA 694	A 5704	01	LAHAINA	1	20 53	156 55	1430		MO			DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1135		WI		C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040		WM			DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
MAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	U OF MICH MT HKALA OBSY
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM + SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM + SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM + SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800		MO			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A			E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM + SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		WI			KAUPO RANCH CO.
PAUWELA 490	A 7657	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500		MO			PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM + SUG CO
PUU PAKI 352	8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM + SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8753	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		WM			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		WI			KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240		MO			KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770		MO			KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		MO			STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A			HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A			KOHALA SUGAR CO
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	J	U S WEATHER BUREAU
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH MANOS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A			PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700					RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VULCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A			SHIGEO MASUYA
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV. OF FORESTRY
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840		WI			KOHALA DITCH CO LTD
KIOLAKAA A + F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		7A			KOHALA SUGAR CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BONO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 52	155 55	15		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			U S WEATHER BUREAU

STATION INDEX

STATION	INDEX NO.		DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII													
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 20	5735		W1		C	ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L + N RES
LANIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1		5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV. OF PARKS
MANUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS 39		6198	05	HAMAKUA	5	19 32	155 35	11146	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1		6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03	KAU	3	19 11	155 30	600		MO			HAWAIIAN RANCH CO
MOUNTAIN VIEW 91		6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A	6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6		6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VULCANOES NAT PK
NIULII 179	A	6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223		7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1		7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A	7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217		7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAUILO 221		7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21		7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHUA 65		7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A	7643	03	KAU	3	19 22	155 28	5000		MO			HAWAIIAN RANCH CO. INC.
PAPAINUU 144.1		7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1		7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144		8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIHONUA 89	A	8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
PUHAKULOA 1u7	A	8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		E	STATE DIVISION OF PARKS
PUAKO 95.1	A	8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIME 120	A	8393	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIAU RANCH CO
ISLAND OF HAWAII													
PUU LAAU 102.1	A	8452	05	HAMAKUA	5	19 50	155 36	7440		MO			STATE DIV OF FISH-GAME
PUU LEHUA 73	A	8460	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A	8515	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUOKUMAU 167	A	8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU SO 82		8550	02	S HILO	2	19 44	155 23	6340		6A			Wm. M. SHIPMAN, LTD.
PUU WAAWAA 94.1	A	8555	04	N KONA	4	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A	8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT COMPAL 3	A	8675	03	KAU	3	18 57	155 41	400		W1			HUTCHINSON SUGAR CO
S POINT TRACKING STA		8679	03	KAU	3	18 57	155 41	305				C	FEDERAL ELECTRIC CORP
UMIKOA 118		8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U. S COAST GUARD
WAIAKEA SCD 88.2		9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 178.6		9360	01	N KOHALA	1	20 08	155 47	3830				K	KAHUA RANCH
CLOSED STATION ISLAND OF OAHU													
MAKAHA VALLEY 800.1	A	5781	04	WAIANAE	4	21 29	158 12	160		8A		T	CLOSED 2/28/69
NEW STATION ISLAND OF OAHU													
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		T	CAPITAL INVESTMENT CO.

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS· Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- – No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

- \+ And also on an earlier date or dates

- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data

- * Amount included in following measurement, time distribution unknown.

- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

- B Adjusted to a full month.

- J "Supplemental Data" table.

- M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.

- R Amounts from recording gage.

- T Trace, an amount too small to measure.

- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- AR Observation made after rain.

- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

- MO Gage read once monthly; usually on the last day.

- OC Gage readings at periods varying from a few weeks to several months.

- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

- SS Observation time is near sunset.

- VAR Observation time is variable.

- WI Gage read weekly or irregularly only

- WM Gage read weekly and last day of month.

- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE -5/28/69-890

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
MARCH 1969
Volume 65 No. 3

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JUL 22 1969
S.I., TECH. & AGR. DIV.

CLIMATOLOGICAL DATA

Station		Temperature												Precipitation									
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																							
ISLAND OF KAUAI																							
ANAHOLA 1111	A													1.66	- 4.55			.0	0			0	0
KANALOHULUHULU 1075		65.3	48.7	57.0		71	21	37	11	0	0	0	0	2.16		.50	31	.0	0		5	1	0
KAPAA STABLES 1104	A													2.64				.0	0				0
KILAUEA FIELD 17 1135	A													5.17	- 4.71			.0	0				
KILAUEA POINT 1133		76.5	65.0	70.8		82	13+	57	20	0	0	0	0	2.34		.44	23	.0	0		8	0	0
KOLOA 936	A													4.04	- 2.59			.0	0				0
LIHUE WB AP 1020.1	R	75.2	64.5	69.9	- 1.1	78	22+	58	11	0	0	0	0	1.75	- 2.81	.28	6	.0	0		7	0	0
MANA 1026		83.1	60.1	71.6	.4	86	24	57	7+	0	0	0	0	.09	- 2.56	.03	7	.0	0		0	0	0
N WAILUA DITCH 1051	A													13.15				.0	0				
PH WAINIHA 1115														23.25	8.80	4.84	31	.0	0		20	13	7
PUEHU RIDGE 1040														.30		.11	3	.0	0		1	0	0
WAHIAWA 930	A													.47	- 3.03			.0	0			0	0
WAIAHI LOWER 1054		76.3	60.4	68.4		81	16+	54	14+	0	0	0	0	7.64		1.68	31	.0	0		19	5	2
WAIMEA 947														.16	- 2.20	.12	3	.0	0		1	0	0
1SLAND				67.5										4.63				.0					
* * *																							
ISLAND OF OAHU																							
HONOLULU DSERV 702.2														1.77		1.65	17	.0	0		1	1	1
HONOLULU WBFO 703	R	80.9	66.2	73.6	.8	84	5	61	28	0	0	0	0	3.00	.11	2.41	16	.0	0		2	1	1
KAHUKU 912	A	M	M	M		89	12	59	12	0	0	0	0	3.07	- 1.67	.59	6	.0	0				0
KANEOHE MAUKA 781		75.5	65.6	70.6	- .7	81	12	61	15+	0	0	0	0	7.71	.45	1.77	17	.0	0		15	3	2
KOOLAU DAM 833														10.36	.38	2.10	31	.0	0		17	8	3
LUALUALEI 804		80.2	66.6	73.4		84	14	61	11	0	0	0	0	*				.0	0			0	0
MAKAPUU POINT 724		76.1M	67.4M	71.8M		82	7	60	31	0	0	0	0	3.04	- .88	1.80	15	.0	0		5	2	1
NUUANU RES 4 783														13.20	1.19	5.68	16	.0	0				
OPAEULA 870	A	73.9	60.0	67.0	.2	81	24	56	29+	0	0	0	0	3.57	- 2.64			.0	0				0
PALOLO VALLEY 718														27.26	14.41	10.78	16	.0	0		22	8	7
PRI WAHIAWA 820.2	A	78.0	60.3	69.2		82	12+	56	12+	0	0	0	0	2.48				.0	0				
PUNALUU 884	A													5.67				.0	0				
WAHIAWA DAM 863	A													1.89				.0	0				
WAIAHOLE 837	A													16.62	1.79			.0	0				
WAIALUA 847	A	78.1	60.3	69.2	- 1.1	83	23	55	28	0	0	0	0	2.69	- .81	1.05	17	.0	0		3	2	1
WAIKIKI 717.2		81.0M	66.7M	73.9M		84	14+	60	11	0	0	0	0	.52		.19	17	.0	0		1	0	0
WAIPAHU 750	A													1.21	- 1.97			.0	0				
1SLAND				71.1										6.12				.0					
* * *																							
ISLAND OF MOLOKAI																							
KUALAPUU 534	A													5.65	1.09			.0	0				
MAPULEHU 542														4.51	.29			.0	0				
MAUNALOA 511	A													1.13	- 2.64			.0	0			0	0
MOLOKAI AP 524		77.4M	66.3M	71.9M		82	14+	61	13+	0	0	0	0	3.04		2.23	17	.0	0		2	2	1
1SLAND				71.9										3.58				.0					
* * *																							
ISLAND OF LANAI																							
LANAI CITY 672	A	73.9M	61.6M	67.8M	1.8	78	14+	58	12	0	0	0	0	3.34	- .99			.0	0				
1SLAND				67.8										3.34				.0					
* * *																							
ISLAND OF MAUI																							
HALEAKALA 8 E S 434	A													17.55	8.34	2.37	7	.0	0		18	11	10
HALEAKALA RS 338		58.4	39.7	49.1		66	21	35	25+	0	0	0	0	6.64		1.13	7	.0	0		11	5	3
HANA AIRPORT 355		78.4	65.8	72.1		82	10	60	27	0	0	0	0	9.83		2.44	31	.0	0		17	5	3
HONOKOHUA 493	A													6.61	2.53			.0	0				
KAANAPALI AIRPORT		80.2	65.6	72.9		84	21	61	10	0	0	0	0	3.33		1.95	17	.0	0		6	1	1
KAHULUI WB AP 398	R	80.5	63.8	72.2	.0	85	21	56	10	0	0	0	0	3.17	.95	1.05	17	.0	0		8	2	1
KAILUA 446		74.0	61.6	67.8	- .3	80	16	58	28+	0	0	0	0	20.07	7.89	3.40	31	.0	0		26	12	7
KEANAE 346	A													63.47	41.31			.0	0				
KIPAHULU 258														9.24	- .32	2.66	31	.0	0		13	7	2
KULA SANATORIUM 267		69.1	52.5	60.8	- .4	74	25	49	28+	0	0	0	0	2.95	- .35	2.06	18	.0	0		3	2	1
LAHAINA 361		83.0	64.3	73.7		85	23+	60	28	0	0	0	0	.18	- 1.75	.13	4	.0	0		1	0	0
PAIA 406														6.93	2.88	1.87	17	.0	0		14	5	2
WAILUKU 392		79.7M	66.0M	72.9M	1.4	88	2	62	29+	0	0	0	0	2.96	- .79	.84	17	.0	0		7	2	0
1SLAND				67.7										11.76				.0					
* * *																							
ISLAND OF HAWAII																							
HAINA 214		77.2	60.5	68.9	- .6	82	14	57	12	0	0	0	0	15.04	6.48	2.09	17	.0	0		17	7	7
HAWAII VOLCNS NP HO 54		63.6	50.5	57.1	- .8	68	31	46	29+	0	0	0	0	14.29	2.31	2.54	1	.0	0		19	9	5
HILO WB AIRPORT 87	R	79.6	65.3	72.5	1.9	83	16+	60	10	0	0	0	0	30.64	15.94	7.10	3	.0	0		16	13	8
HUEHUE 92.1	A													3.12	- .59			.0	0				
KAINALIU 73.2		77.4	59.6	68.5		79	31+	57	28+	0	0	0	0	1.13	- 4.15	.58	2	.0	0		3	1	0
KAMUELA AIRPORT 191		71.1M	50.8M	61.0M		84	11	43	12	0	0	0	0	1.64		1.14	17	.0	0		3	1	1

See Reference Notes Following Station Index

Continued

Station	Temperature													Precipitation									
									No. of Days									Snow. Sleet			No. of Days		
									Max.		Min.												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below		Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	79.8	62.1	71.0	.7	83	17+	59	10+	0	0	0	0		31.73	16.15	7.50	5	.0	0		20	12	7
KEALAKEKUA 26.2	77.7	60.5	69.1		80	31+	58	28	0	0	0	0		1.62		.30	3	.0	0		7	0	0
KONA AIRPORT 68.3	81.2	62.9	72.1		83	17+	60	10+	0	0	0	0		.11		.10	5	.0	0		1	0	0
KUKUIHAELE HIC 199														14.51	4.47	2.25	26	.0	0		19	7	6
KULANI CAMP 79	59.9	44.6	52.3		69	28	39	28	0	0	0	0		11.80		2.90	1	.0	0			6	3
MAUNA KEA BEACH 98	85.2M	68.6M	76.9M		92	21+	65	27+		0	0	0		.03		.03	25	.0	0		0	0	0
PAHALA 21	77.2	59.8	68.5	- .4	80	31	57	30+	0	0	0	0		1.84	- 3.74	.65	12	.0	0		6	1	0
PAHAKULOA 107 A														.09				.0	0		0	0	0
PUAKO 95.1 A														.11		.09	8	.0	0		0	0	0
PUU WAAWAA 94.1 A														1.66	- 1.55	.98	6	.0	0		2	2	0
UMIKOA 118														10.72	- 2.01			.0	0				
WAIAKEA SCD 88.2														34.61		7.05	4	.0	0		21	15	10
ISLAND			67.1											9.71				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 21+ AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 24° ON THE 5TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 52.51 INCHES AT PAPAIKOU MAUKA 140.1, HAWAII

LEAST TOTAL PRECIPITATION: ZERO AT 4 STATIONS

GREATEST ONE-DAY PRECIPITATION: 11.90 INCHES ON THE 16TH AT MANDA TUNNEL 2 716, OAHU

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
MARCH 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																	
ANAHOLA 1111	A	1.66	*	*	.04				.15							.08	*	*	.43	.01	.03			*	*	.17		.10	.10	.10	*	*	.45
BRYDESWOOD STA 985	A	2.11	*	*	.78	.36	.05	.04	.15	*	*	.15	.01	.01	.01					.01	.01	.01	.02	*	*	.01			.01		*	*	.48
EAST LAWAI 934	A	2.61	*	*	.78	.40	.06	.05	.07								*	*	.17	.17	.06	.03	.02	*	*	.07		.01	.06	.03	*	*	.63
ELEELE 927	A	.47	*	*	.15	.13			.02	*	*	.03					*	*	.04				T	*	*	.04	.01				*	*	.05
HALAULA 1110	A	2.59	*	*	.14	.04			.09	*	*	.02				.04	*	*	.55	.20	.07		.03	*	*	.20	.05	.10	.11	.20	*	*	.79
HALENANAHO 1006	A	3.00	*	*	.42	.05	.04	.07	.05	*	*	.22				.09	*	*	.57	.21	.07		.03	*	*	.19	.10	.03	.14	.04	*	*	.68
HUKIPO 945		.25			.06	.02																				.15						.02
ILILILULA INTAKE 1050	A	13.72	.21	.35	*	2.77	.34	.35	.40	*	*	2.21	.02		.05	.03	*	*	1.97	.31	.20	.12	.07	*	*	1.02	.52	.02	.05	.04	*	*	2.67
INTAKE WAINIHA PC 1086	A	31.13	*	*	*	*	*	*	*	*	*	0.00	*	*	*	.13	*	*	*	4.40	*	*	*	*	*	4.00	*	*	.59	.11	*	*	11.90
KALIHIWAI RES 1131	A	9.52	*	*	.90	.45	.07	.08	.29	*	*	.37				.15	*	*	2.28	.17	.47	.03	.06	*	*	.74	.65	.18	.67	.18	*	*	1.78
KANALOHULUHULU 1075		2.16	.08	.03	.19			.04	.08	.04					.02	.04	.02	.02	.23	.07						.38	.04	.07	.17	.05	.07	.02	.50
KANEHA RESERVOIR 1092	A	8.40	*	*	.38	.12			.17	*	*	.10				.20	*	*	1.59	.50	.17		.22	*	*	2.00	1.30	.20	.34	.21	*	*	.90
KAPAA STABLES 1104	A	2.64	*	*	.32	.06			.08							.03	*	*	.44	.20	.05			*	*	.23	.15	.05	.20	.10	*	*	.73
KEALIA 1112	A	1.78	*	*	.02				.05	*	*	.04				.03	*	*	.50	.15	.03		.02	*	*	.09	.03	.11	.16	.05	*	*	.50
KEKAHA 944		.31			.03	.04						.08														.15						.01
KILAUEA 1134	A	3.04	*	*	.16	.11	.05	.02	.29	*	*	.11				.04	*	*	.25	.06	.04	.01	.05	*	*	.38	.04	.20	.30	.19	*	*	.74
KILAUEA FIELD 17 1135	A	5.17	*	*	.24	.10	.09	.05	.42	*	*	.18				.30	*	*	.75	.36	.15	.06	.10	*	*	.30	.14	.19	.38	.12	*	*	1.24
KILAUEA POINT 1133		2.34	.04		.02			.32	.03		.05				.10	.13	.05	.09	.05	.01				.03	.44	.02	.21	.09	.11	.03	.06	.17	.29
KOLO 1033		.23			.03				.16																							.04
KOLOA 936	A	4.04	*	*	.35	.47	.13	.10	.02	*	*	.37	.01				*	*	.67	.52	.04		.01	*	*	.20	.02	.02	.13	.02	*	*	.96
KOLOA MAUKA 994	A	4.12	*	*	.79	.22	.05	.18	.09	*	*	.34				.16	*	*	.27	.26	.17		.04	*	*	.17		.05	.07		*	*	1.26
KOLOKO RES 1137	A	4.64	*	*	.07	.09	.01	.02	.50	*	*	.01				.30	*	*	.61	.09	.14	.04	.15	*	*	.45	.13	.26	.42	.17	*	*	1.18
KUKUIULA 935	A	1.14	*	*	.05	.17	.05	.14	.05								*	*	.15	.15	.03			*	*	T		T	.03	.02	*	*	.30
LIHUE VARIETY STA		4.44	.02		.33	.04		.32	.30	*	*	.01					*	*	.56	.40	.06		.01	*	*	.40	.31	.08	.28	.08	.11	.03	1.40
LIHUE 1020	A	2.70	*	*	.05	.03	.07	.08	.09	*	*	.04					*	*	.44	.34	.05			*	*	.32	.29	.12	.17	.06	*	*	.55
LIHUE WR AP 1020.1	R	1.75		T		T		.28	T		.02				T	.13	T	.17	.05	.09	T	T	T			.07	.11	T	.23	.01	.04	.03	.25	.27
MAKAHUENA POINT 940.1		.99		.01	.02	.04	.01	.06	.09		.01							.01	.22	.12		.01	.02			.15			.05		.02		.15
MAKAWELI 965	A	.59		.03	.03				.01																	.04					.01	.47
MANA 1026		.09			.01	.02			.03																	.02						.01
MOHIHI UPR CROSS 1083	A	7.20	.18	.18	.42			.18					.12					.24	.30	.06					.36	.48	.06	.30	.06	.12	.06	.48	3.60
MOLOAA 1145	A	2.28	*	*	.03				.28							.13	*	*	.44	.06	.07	.01	.03	*	*	.03	.11	.27	.11	.13	*	*	.58
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-					.04	1.46	2.60	1.61	.08	.55	.24	.39	2.17	2.32	.31	.51	.12	.91	2.32	.91	11.38
NIU RIDGE 1035		.21			.02															.12						.04					.03	
N WAILUA DITCH 1051	A	13.15	*	*	2.76	.87	.43	.20	.53	*	*	.74	.01		.05	.05	*	*	2.45	.47	.18	.06	.05	*	*	1.40	.40	.20	.20	.10	*	*	2.00
PH WAINIHA 1115		23.25	.88	.29	.59	1.29	.02	.05	.33	.42	.05	.20				.18	1.55	.05	2.12	2.05	.67	.01	.02		.01	3.59	1.50	.33	.60	.14	.60	.87	4.84
PRINCEVILLE RANCH 1117		5.78	.17	.07	.49	.08		.05	.30	.18	.12					.03	*	*	1.05	.16	.05	.09			.12	.56	.32	.26	.14	.15	.49	.18	.72
PUEHU RIDGE 1040		.30			.11	.01														.06						.09						.03
PUHI 1013	A	3.46	*	*	.07	.06	.15	.09	.07	*	*	.03					*	*	.59	.32	.07			*	*	.59	.28	.04	.26	.13	*	*	.71
RESERVOIR 6 1004	A	3.10	*	*	.24	.60	.05	.10	.02	*	*	.18				.11	*	*	.56	.16	.09		.02	*	*	.12	.04	.03	.08		*	*	.70
WAHIAWA 930		.47	*	*	.04	.06		.02	T	*	*	.01								.02		T		*	*	.02						.30
WAHIAWA MOUNTAIN 990	A	37.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	37.25
WAIAHI LOWER 1054		7.64	.12	.08	.72	.51	.17	.10	.30	.46	.09	.12					*	.03	1.05	.27	.25	*	.10	.15	.02	.54	.10	.06	.10	.09	.25	.28	1.68
WAIAHI UPPER 1052		10.14	.18	.25	.85	1.35	.25	.25	.43	.23	.47	.05			.06	.02			.79	.23	.31	.05	.05	.11		1.63	.40	.03	.11	.06	.27	.12	1.59
WAIAWA 943		.09			.02	.02																				.03						.02
WAILUA KAI 1065	A	1.78	*	*	.03	.03		.05	.11								*	*	.26	.11	.05			*	*	.15	.11		.20	.07	*	*	.61
WAIMEA 947		.16			.12					.01			.01										.01										.01
WEST LAWAI 931	A	1.34	*	*	.03	.26	.02	.04	.02								*	*	.05	.09	.01	T		*	*	.01			.03	T	*	*	.80
* * * ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	3.08	*	*	*	*	*	.58	*	*	*	*	*	*	*	*	*	*	2.04	.13	*	*	*	*	*	*	*	*	*	*	*	*	.33
BERETANIA PUMPING STA		3.64		.15	.60	.05	.01	.01	.15	.03	.02	.01					.02	.06	2.50	.01	T					T	T						.02
CAMP 84 807	A	1.22	*	*	.06									*	*	*	*	*	.96	*	*	*	*	*	*	.06	*	*	.02	*	*	*	.12
CHURCH COLLEGE LAIE		3.39	.02	.07	.07	.02		.02		.03						.17	.98	.54	.04	.02	.01	.04				.40					.37	.03	.56
COCONUT ISLAND 840.1		4.79	.05				.10	.10	.06	.03					.15		.86	1.12	.74	.40	.04	.01		.04		.22	.55	.02					.30
EWA PLANTATION 741		1.60	.01							.01							.02	.29	1.17	.10												
HELEMANO INTAKE 881	A	8.32	*	*	2.58	*	*	*	*	*	*	.77	*	*	T	*	*	*	.82	*	*	.47	*	*	*	*	.75	*	.11	*	*	*	2.82
HOKULOA 725.2	A	1.79	*	*	*	*	.20	*	*	*	*	*	.02	*	*	*	*	*	*	*	1.53	*	*	*	*	.04	*	*	*	*	*	*	*
HONOLULU OBSERV 702.2		1.77			T				T								.07	T	1.65	.04							.01		T		T		
HONOLULU WBFO 703	R	3.00	.02	.03	.09	T	T	.05	T	T						.02	T	2.41	.29	T	T	T	T		T	T	T	T			T	T	.09
HONOLULU SUBSTA 704		3.52	.10	.34	.06			.12	.01									2.45	.15													.29
H S P A EXP STA 707		3.38	.09	.14	.63	.16	.01	.07	.17	.09	.05						.01	.05	1.73	.01	.02	.01				.05	.01	T					.08
KAHANA 883	A	31.58	*	*	1.36	*	*	*	*	*	*	4.56	*	*	*	*	*	*	13.84	*	*	*	*	*	*	5.36	*	*	*	*	*	*	6.46
KAHUKU 912	A	3.07	*	*	.31			.59	.02	*	*	.03				.26	*	*	.58	.07	.04			*	*	.40	.20	.02	.02		*	*	.53
KAILUA FIRE STA 791.3		2.75	.03		T	T			.03	T	T					.02	1.25	.04	.67	.18	.04					.12	.37	T	T	T			
KALIHI RES SITE 777		19.14	.58	.32	.20	.14	.16	.28	.16	.16	.06			.60	.02	.36	1.02	7.28	1.20	.92	.14	.02	.24		.30	1.58	1.30	.10				.10	1.90
KANEOHE MAUKA 781		7.71	.19	.01	.12	.15	.06	.09	.16	.35	.12				.01		.90	1.68	1.77	.54	.19			.04		.10	.93	.12			.02	.05	.11
KANEOHE RANCH 838	A	7.40	.12	*	.16	.01	*	.18	.11	T	*	T	T			.09	.85	*	3.00	.53	.23	T	T	T	*	.16	1.20	*	.11	T	*	*	.65
KAPALAMA 773	A	7.00	*	*	2.00	.60		.20	.40	*	*	.90						*	2.00	.10	.20			*	*	.30	.30				*	*	*
KAWAIHAPAI 841	A	2.91	*	*	.30	.01			.01							.07	*	*	1.15	.10				*	*	.35	.27	.30	.03		*	*	.32
KAWAI 1KI INTAKE 880.2	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00	*	*	*
KEMOO CAMP 8 855	A	1.94	*	*	.39	.01	.01	T	.10	*	*	T				.01	*	*	.99	.04	T			*	*	.08	.03	.03	.02		*	*	.23
KOOLAU 833		10.36	1.10	.49	.72	.78		.35	.67	.14	.50	.14	.03		.09	.14	.09	.60	1.05	.40	.06	.21	.05			.03	.31	.15	.02	.03		.06	.05	2.10
LUALUALEI 804		*	*	*	.02			.02										*	.32	.01											*	*	*
LUALUALEI WTR TUNNEL	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LUNALILO HOME 724.2		2.44	.10			.05						*	.05					.20	1.30	.09	.05				.15		*	.25					.20
MAKAHA KAI 796	A	1.59	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.59	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MAKAHA PUMP 800.2	A	.47												.02	T				.44								.01						
MAKAPUU POINT 724		3.04	.06														1.80	.15	.64	.04						.11	.17	.03					.04
MANOA 712		9.97	.67	.51	1.24	.44	.09	.38	.65	.23	.19			.02	.28			.05	2.81	.42	.43	.02				.59	.39			.02			.54
MANOA TUNNEL 2 716		30.78	.62	.48	.64	.36	.32	.58	.08	.14	.24						1.18	1.90	3.08	1.42	.08		.14	.02	.48	3.02	2.04	.14		.06	.20	.80	2.76
MOANALUA 770		3.64	.16	*	.61	.09		.05	.14							*	.02	.14	2.15	.06	T	T			*	.08	.01			*	*	*	.13
NUUANU RES 4 783		13.20	.42	.38	.30	.04	.16	.22	.08	.08	.06					.06	.44	5.68	.74	.20	.12		.08		.04	*	*	*	*	*	*	*	4.10
NUUANU RESERVOIR 5 775	A	14.48	*	*	3.40	.95	.05	.37	.33	*	*	.46					*	*	4.67	.52	.22	.03	T	*	*	.55	.36	*	.04		*	*	2.53
OPAFULA 870	A	3.57	*	*	.85	.07	.05	.05	.22	*	*	.09					*	*	.76	.15	.07	.02	.01	*	*	.27	.15	.06	.06	.01	*	.18	.50
PALOLO VALLEY 718		27.26	.26	.42	.20	.18	.16	.48	.16	.18	.04	.06				.16	1.98	0.78	2.42	1.42	.36		.16		.42	3.12	1.76	.12		.02	.14	.50	1.76
PAUOA FLATS 784		30.80	1.30	.88	1.72	.60	.34	.82	.24	.44	.24	.08		.08		.20	.88	1.28	1.86	1.26	.26	.02	.36	.02	.10	2.44	1.66	.12	.02		.04	.64	2.90
PORTLOCK ROAD 724.4		1.46			.36		.15			.02	.03				.06		.09	.18	.04			.08	.08	.10	.11					.02	.04	.10
PRI WAHIAWA 820.2	A	2.48	*	*	.22			.02	.11								*	*	1.60	.11					T	T	*	T			*	*	.42
PUNALUU 884	A	5.67	*	*	.40	.04	.03	.13	.08	*	*	.20		.10		.05	*	*	2.20	.52	.10	.03		*	*	.40	.72	.05			*	*	.62
PUNCHBOWL CRATER 709	A	4.32	.06	.15	.86	.16	.02	.01	.30	.04	.06						.03		2.52	.01	.02			.01	.01		.01	.01				.02	.02
ST STEPHENS SEM 788		8.71	.08	.14	.06	.01	T	.05	.16	.04	T				.11	T	.64	1.30	3.32	.42	.20	.05	.01	.04	T	.34	1.19	.09	.01		.06	.05	.34
TANTALUS 2 780.5		16.10	.83	.97	1.41	1.67	.29	.54	.91	.27	.54	.20					*	*	5.30	.32	.41		.07	*	*	.34	.45	.13	.02			.02	1.41
UNIV OF HAWAII 713	A	4.44	*	*	1.25	.40	.04	.09	.24	*	*	.10	T		.04		*	*	1.00	.12	.24	.01		*	*	.45	.42	*	.04		*	*	*
WAHIAWA DAM 863	A	1.89	*	*	.17	*	*	.11	*	*	*	.12	*	*	*	*	*	*	1.15	*	*	T	*	*	*	.05	.03	.05	.01		*	*	.20
WAIAHOLE 837	A	16.62	*	*	.73	.29	.08		.33	*	*	.63	.13		.09		*	*	8.20	1.29	.63		.04	*	*	.36	1.72	1.46	.03		*	*	.61
WAIALAE KAHALA 715		.87	.07	T	T	.03	.02	.01	.08	.02	.01	T						.02	.27	.12	.08	.01				.05	.04	.02	T			T	.02
WAIALUA 847	A	2.69			.43	T	T	.05	.16	.04	T					.05		.09	1.05	.01	T					.08	.07	.05	T		.03		.83
WAIANAE 798	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WAIANAE MAUKA 803	A	3.72	.17	*	*	*	.08	*	*	.10	*	*	*	.17	*	*	.25	*	*	*	1.40	*	*	.27	*	*	*	1.00	*	*	.28	*	*	*
WAIAWA 836	A	12.23	*	*	.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.73
WAIKANE 885	A	17.83	*	*	.86	*	*	*	*	*	*	1.26	*	*	*	*	*	*	9.25	*	*	*	*	*	*	2.36	*	*	*	*	*	*	4.10
WAIKIKI 717.2		.52	.05	.02	*	.05	.01	.03	*	*	.04	T					T		.19	.04	T			T		.06	T	.01					.02
WAILUPE RESV. 723.2	A	3.94	*	*	*	*	*	.29	*	*	*	*	*	*	.28	*	*	*	*	*	*	1.62	*	*	*	*	*	*	1.41	*	*	*	.34
WAIMANALO 794	A	3.81			.03												1.77	.46	.54	.13	.03					.15	.68		.02				
WAIMEA 892	A	4.72	*	*	1.64	.06		.05	.16	*	*	.10				.36	*	*	.28	.05	T		.06	*	*	.53	.35	.26	.02		*	*	.80
WAIPAHU 750	A	1.21							T			T					*	*	1.12	.08											*	*	.01
WILHELMINA RISE 721		4.86	.12	.20	.32	.18	.04	.20	.06	.06	.26			.02				.80	.56	.24	.24		.02	.02	.18	.58	.08	.06				.06	.56

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII MARCH 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF MOLOKAI																																	
KALAUPAPA 563	A	16.13	*	.20	1.02	.22	*	*	*	*	*	*	*	*	*	.06	*	.24	11.10	.40	*	*	*	*	*	*	4.80	.06	.03	*	*	*	*
KAUNAKAKAI 536	A	.00																															
KEONELELE PENS 551	A	2.38																	2.00								.38						
KUALAPUU 534	A	5.65							.01								*	*	4.24	.25	.05	.02	T			.05	.87	.04	.03			*	.09
MAPULEHU 542		4.51	.05	.20	.03	.15	.03	.09	.03	.03		.22		.08	*	*	*	2.33	.31	.20	*	.03	.16	.10	.02	.17	*	*	*	*	.22	*	.06
MAUNALOA 5.1	A	1.13															*	*	.45	.25	.02			*	*	.08	.30		.03				
MOLOKAI AP 524		3.04	.02	.04	.04														2.23	.07							.62						
PUUOMOKU RANCH 542.1		3.87		.13		.03	.01	.06			.03					.65	.90	1.01	.23	.03				.10		.57	.01	.03			.08		
WAIKOLU 540	A	16.72			5.80							1.12								5.84						1.10						2.86
ISLAND OF LANAI																																	
KANEPUU 690	A	1.01	*	*	*	*	*	.05								*	*	*	*	*	*	.91	*	*	*	*	*	*	*	*	*	*	.05
KAUMALAPAU HARBOR 658	A	.41					.15										*	*	.26														
LANAI CITY 672	A	3.34			.02	.01		.04				T			.08		*	*	1.87	.08	T	T		*	*	.03	.36	*	.14	.12	*	*	.59
LANAIMALE 684	A	6.45	*	*	*	*	*	.18	*	*	*	*	*	*	.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.16
MANANA 694	A	1.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.08
MALAUEA 676	A	.00																															
WAIAKEAKUA 685	A	2.27				*	*	*				.36	*	*				*	*	*													1.91
ISLAND OF MAUI																																	
AUWAHI-252	A	2.64										.28	1.70							.44						.22							
HALEAKALA 8 E S 434	A	17.55	1.02	.21	.43	1.30	1.23	1.67	2.37	.02	.60	.05					.31	.46	1.96	1.42	1.45	.05		.03	.14	.23	1.29	.10	.09		.05	.03	1.04
HALEAKALA RANCH 432	A	7.37	.33	*	.03	.21	.89	.79	1.30	*	.14	*	*	*	*	*	.19	.14	1.32	.68	.46	*	*	*	.04	*	.60	*	.07	*	*	*	.18
HALEAKALA RS 338		6.64	.09	.02	.73	.44	.40	.63	1.13		.15	.04		T			T	.04	1.12	1.08	.47						.12	T					.18
HALEAKALA SUMMIT 338.4		3.10	.04		.05	.27	.20	.28	.22		.11	.05		T					.75	1.05							T						.08
HALIIMAILE 423	A	7.92	*	*	.48	.40	.09	.20	.44	*	*	.15					.17	*	3.40	.64	.55	.06	.04		*	.11	.75	*	.14		*	*	.30
HAMAKUAPOKO 485		12.21	.71	.21	.53	1.54	.23	.75	.10	.04	.12	T					.26	1.06	1.56	.52	.56	.26	.21	.10	.03	.12	.92	.10	.10	.06	.06	.01	2.05
HANA 354		7.87	.09	*	1.54	.09	.04	.49	.13	.57	*	.23					.05	*	1.17	1.46	.30		.09		*	.06	.71	.12	.15			*	.58
HANA AIRPORT 355		9.83	.04	.78	.36	.09	.09	.04	.10	.08	.21	.15	.10				.62	.46	.46	1.40	.24	.18	.14		.02	.18	1.36	.07	.14	.04	T	.04	2.44
HANAHULI 281		10.50	.18	.55	.23	1.88	.08	.07	.47	*	.63	T	T				.10	.95	.19	.92	1.43	.03	.09	.03	.04	.20	.30	.03			T	T	2.10
MOLUA CABIN 259.5	A	2.11	*	*	*	*	*	*	*	*	*	*	*	*	*	.20	*	*	*	*	*	*	1.50	*	*	*	*	*	*	.41	*	*	*
MONOKOHAU 480	A	21.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00
MONOKOHUA 493	A	6.61	*	*	.96	.64	.04		.06	*	*	.25	.02				*	*	1.98	.80	.18	.10	.07	.13	*	.30	.63	*	.31	.03	.01	*	.10
MONOMANU GULCH 341	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KAANAPALI AIRPORT		3.33	.19					.25	.03		.23						.07	.11	1.95	.01	T					.02	.08		T		.02		.37
KAHOMA INTAKE 374	A	30.23	*	*	6.57	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23.32	*	*	*	*	*	*	.34	*	*	*
KAHULUI WB AP 398	R	3.17	.02	.02	.05	T	T	.01			.02							.36	1.05	.15		.10	T	T	T	.17	.04	T	T		.01	.66	.19
KAILILI 426	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KAILUA 446		20.07	1.00	.48	1.31	.52	.48	.35	.14	.33	.49	.12	.12				.67	2.57	1.55	1.34	.95	.07	.25	.15	.29	.46	1.32	.62	.29		.52	.28	3.40
KAUAULA INTAKE 375	A	3.00	*	*	.21	*	*	*	*	*	*	.30	*	*	*	*	*	*	1.86	*	*	*	*	.37	*	*	*	*	*	*	.26	*	*
KEAHUA 410		2.62				.02	.01	.10	.06		.05	.01					.20	.20	1.26	.19	.12	.03				.02	.28	.02	.02	T			.03
KEANAE 346	A	63.47	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.47
KEAWAKAPU BEACH 260.2		.00																															
KIHEI 311		.09							.02										.02	.02	.01						.02						
KIPAHULU 258		9.24		.60	.88	.18	.03	.73	.54	.22	.34						.07	.27	.72	.37	1.39		.16			.08							2.66
KULA HEIGHTS 323.2		2.12				.55	.63	.16	.20			.01	.03						.23	.31													
KULA SANATORIUM 267		2.95		T		.10	T	.05					.03	.02	.03				.61	2.06	.05	T						T					
LAMAINA 361		.18				.13												.01	.04														
LAUNIUPOKO INTAKE 376	A	19.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.00
LAUNIUPOKO VILLAGE 372	A	.38				.04	.02	.14										.02	.09	.04													.03
LUPI UPPER 442	A	35.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.20
MAHINAHINA 466	A	9.26	1.37	.11	.25	.35	.02	.14	.24	*	.25	.01					.33	.43	2.97	.30	.29	.08				.10	.60	.07	.05				1.30
NAKALELE -FLD 60-497	A	3.55	*	*	.27	*	*	*	*	*	*	.31	*	*	*	*	*	*	1.41	*	*	*	*	*	*	.61	*	*	*	*	*	*	.95
OLINDA 332	A	7.23	*	*	.34	*	*	.08	.69	3.98	*	*	*	T	.05	T	*	*	*	.92	*	.01		*	*	.01	1.12	*	.01	.02	*	*	*
OLOWALU 296		.26						.06										.03	.03	.10													.04
OLOWALU GULCH 377	A	11.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00
PAAKEA 350		51.94	1.50	.50	2.71	2.23	.92	.53	.99	.55	.84	.23	.23				3.05	8.57	7.15	4.89	1.27	.20	.18	.14	.17	.86	3.67	.61	.25		1.59	1.10	7.01
PAIA 406		6.93	.34	.11	.16	.58	.02	.04	.13		.03	.01					.14	.73	1.87	.39	.34	.09	.04	.06		.11	.55	.02	T		.10		1.07
PANILEIMULU 259.2	A	5.97	*	*	*	*	*	*	*	*	*	*	4.55	*	*	*	*	*	*	*	1.42	*	*	*	*	*	*	*	*	*	*	*	*
PAUWELA 490	A	14.53	*	*	2.73	.97	.23	.46	.13	*	*	.03					*	*	3.43	1.03	.48	.20	.18	*	*	.22	1.06	*	.38	.02	*	*	3.08
POHAKEA BRIDGE 307.2	A	.68	*	*	*	*	*	*	.02	*	*	*	*	*	*	*	.02	.05	.30	.08	.04	*	*	*	*	.02	.14	.01	*	*	*	*	*
POLIPOLI SPRINGS 267.2	A	2.38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.38	*	*	*	*
PUOMOKAMOA 2 343	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUU KUKUI MAKAI 472	A	48.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	48.00
PUUNENE 396		1.70				.03													.71	.43	.16	.02				.03	.27			.01	.01	.03	
SPRECKELSVILLE 400.2		4.15	.08	.03	.04	.17	.01	.01	.02		.01						.13	.36	1.16	.61	.31	.15	.01	.02		.03	.36	.02	.01		.01	.01	.59
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
UKUMEHAME 301	A	.98						.08										.05	.17	.12	.06												.50
ULUPALAKUA RANCH 250		2.36				.10	.09	.06											.41	1.45	.18						.07						
WAHIKULI 364	A	2.74	.12		.01	.78		.35	.10		.12							.05	.58	.08													.55
WAIEHU CAMP 484	A	4.87	T	.04	.24	*	.01	*	*	*	.03	*	*	*	*	*	.53	1.26	1.07	.16	.05	.03	*	*	*	.04	.40	.20	.30	.07	.01	.06	.37
WAIHEE VALLEY 482	A	7.74	T	.11	.48	.15	.03	*	*	*	.11	*	.01	*	*	*	.25	2.30	1.16	.97	.12	.10	.10	*	*	.13	.80	.32	.14	.23	.04	.03	.16
WAIKAMOI 449	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WAIKAMOI DAM 336	A	42.84	*	*	5.79	*	3.46	5.58	7.80	*	*	*	*	.01	.01		*	*	4.86	6.07	3.93	.17	.03	*	*	.67	3.36	*	.80	.30	*	*	*
WAIKAPU 390	A	2.13	*	*	*	*	.01	*	*		*	*	.01	*	*	*	.10	.36	.23	.54	.22	*	*	*	.05	.04	.30	.10	.10	*	.05	.02	*
WAILUKU 392		2.94	T		.03	.03	.01	.04	.02	*	.01				.09	T	.03	.54	.84	.24	.07	.07	.01	*	.06	.01	.35	.11	.06	.03	.11	.02	.18
WAIOPAI RANCH 256	A	2.38	*	*	.15	*	*	*	.50	*	*	*	.75				*	*	.25					*	*	.25					*	*	.48
ISLAND OF HAWAII																																	
AMUA UMI 75	A	1.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40
AWINI 142.1	A	29.13	*	*	*	9.25	*	*	*	*	*	*	6.38	*	*	*	*	*	*	*	*	*	3.72	*	*	*	*	*	*	*	*	*	9.78
EAST HONOKANE 183.2	A	23.51	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.61
HAINA 214		15.04	2.02	.49	.03	1.71	.39	.14	1.98	.10	1.82	.07	.02						2.09	.38	.12	.08	.02	.15	.03	.24	1.42	1.19	.17	.08			.30
HAKALAU 142		31.80	1.77	.86	2.06	4.60	5.78	1.72	2.14	.15	1.53		.47	.02				.09	.96	.85	.10	.18	.16	.20	.15	.12	.29	.95	.08		.09	.05	6.43
MALEHAUMAU 52	A	5.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.22
MALEPUNA 117	A	4.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.25
MALEPOHAKU 111	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAWAII VOLCNS NP HQ 54		14.29	2.54	.65	.74	1.82	.88	.30	1.81	.19	1.28	.37	.98	.47	.03	.02		.14	.55	1.05	.06	.26	.09	.10	.09	.02	.29	.13	.01	.03	.02	.03	.04
MAW 168	A	9.08	*	*	1.70	2.05	.70	.05	2.67	*	*	.45					*	*	.15	.17	.04	.02		*	*	.43	.80	.18	.01		*	*	.16
MILO WB AIRPORT 87	R	30.64	.61	.96	7.10	2.42	3.84	1.79	.09	.50	1.46	.04	.28	.02	.03		.18	.13	1.09	.51	.41	.01	.14	T	.03	.09	.59		.01	.02	.01	4.37	3.91
MOLUALOA 70	A	6.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.20
MOLUALOA BEACH 68	A	.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.55																
MONAUNAI 27		2.48			.01	.02			.02	.01	.05	.64	.34	.02	.01	.01		.02	.05	.64	.18	.02	.01		.02	.03		.18	.17	.02	.01			
MONOMINA 137		39.48	1.70	.76	2.22	6.50	5.97	2.00	2.58	.20	2.76		.07	.05				.40	3.04	1.18	.17	.28	.20	.28	.10	.16	.56	1.82	.12	.04	.05	.06	6.21
HONOKANE 1R1.1	A	25.91	*	*	4.61	*	*	*	*	*	*	*	11.02	*	*	*		*	*	*	*	*	3.57	*	*	*	*	*	*	*	*	*	6.71
HONOMU MAUKA 138		40.29	2.34	.96	2.20	5.91	10.21	3.08	2.93	.13	2.90		.08	.12				1.16	2.93	.88	.45	.67	.57	.29	.02	.07	1.70	2.26	.14	.08	.07	.09	6.05
HONUAULA 71	A	4.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.80
HUALALAI 72	A	2.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
HUEHUE 92.1	A	3.12	*	*	*	*	*	*	*	*	*	3.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.20
KAALA IKI 17	A	2.62	.07	T	.02	.01	.43				.19	T		.37		T	.05	.01	.03	.01						.36	.10	.33	.40	.02	.20		.02	
KAAWALOA 29	A	1.13	*	*	.43					*	*	.07	.04			.10	*	*	.19		T						.15	T	.15				
KAINALI 7.2		1.13		.58					T	.11		.01	.02			.02	.23				.06			.02	.02	.04	.02				T		
KALAPANA NO 1 67.8		11.23	*	*	*	3.50	*	3.20	*	*	*	*	.47	*	*	*	*	*	*	.80	*	*	.40	*	*	.20	*	.10	*	*	*	*	2.36
KAMAOA NO 2 5	A	.29	*	*	*	*	*	*	*	*	.50	*	*	*	*	*	.10	*	*	*	*	*	*	*	*	.18	*	*	*	*	*	*	*
KAMUELA 19.2		2.24	.09	.14			.05	.02	.10		.04	.03	.09		.02				.58	.52	.04	.06			.02	.06	.23	.12					.04
KAMUELA AIRPORT 191		.64	.04	.02			.02	T	.03	T	T		.08						1.14	.12	T	.02		T	T	.02	.10	T	.03	.02	T		T
KAPAPALA RANCH 36	A	3.53	*	.08	*	.55	*	.10	*	*	*	.30	*	.50	*	.05	*	*	*	*	*	*	1.00	*	*	1.00	.50	.10	.10	.25	*	*	*
KAPOHO LANDING 93.5	A	10.47	*	*	*	*	*	*	6.53	*	*	*	*	*	*	1.33	*	*	*	*	*	*	.73	*	*	*	*	*	*	1.83	*	*	*

See reference notes following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		34.47	2.42	.76	1.47	6.11	5.33	1.30	2.85	.43	2.80	.64	.17	.12	.04			.52	1.28	.57	.75	.31	.11	.07	.01	.02	1.04	1.26			.02	.05	4.02
KAWAINUI LOWER 193	A	19.94	*	*	*	*	*	*	7.80	*	*	*	*	*	*	.92	*	*	*	*	*	*	9.30	*	*	*	*	*	*	1.92	*	*	*
KEAAU 92		31.73	1.97	.82	1.32	6.73	7.50	1.39	1.69	.08	.48	.03	.19	.05	.01			.25	.45	.79	.78	.33	.26	.11	T	.42	.72	.75		.01	.05	.10	4.85
KEALAKEKUA 26.2		1.62	T	.29	.30					.01		.07	.07			.17	.28				T			.14	T	T	.14		.01	.14			
KEHENA 181.2	A	21.36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	21.36
KIOLAKAA A E F 6	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00
KIPA 89.2	A	43.30	3.68	1.49	1.43	9.77	4.56	1.32	3.52	.68	3.22	.05	.40	.07	.02	.04		.83	1.52	.94	.92	.61	.40	.20	.03	.02	1.60	.84	.01		.03	.08	5.02
KOHALA 179.1	A	10.58	*	*	1.76	3.04	.38	.07	1.96	*	*	.74	.01		.02		*	*	.35	.06	.03	.01		*	*	.42	.95	.37	.03		*	*	.38
KOHALA MAULILI 176	A	14.75	*	*	2.61	2.35	.44	.03	3.60	*	*	.80	.01		.01		*	*	.58	.18	.12	.06	.04	*	*	.28	2.49	.88	.07	.01	*	*	.19
KOHALA MISSION 175.1		10.87	1.64	.52	.11	3.63	.44	.13	.41	.08	.58	.06	T		T		.04	.01	.28	.20	.10	.04	.01	.03	.01	.38	1.29	.54	.04				.30
KOIAWE LOWER 196	A	14.42	*	*	*	*	*	*	3.82	*	*	*	*	*	*	.75	*	*	*	*	*	*	6.25	*	*	*	*	*	*	3.60	*	*	*
KONA AIRPORT 68.3		.11		T			.10		T	T	.01	T																					
KONA VILLAGE 93.8		.43				.10			.28																							.05
KUKAIAU 222		28.24	2.73	.78	.21	3.05	2.99	.41	1.87	.61	2.13	.11	T					.01	2.11	1.34	.20	.32	.02	.24		.44	2.73	3.02	.28	.07	.01	T	2.56
KUKUIHAELE HIC 199		14.51	1.90	.41		.30	.15	.10	2.00	.14	1.02	.11							1.98	.42	.12	.08		.10	.12	.52	2.22	2.25	.15	.06			.36
KUKUIHAELE MILL 206	A	12.35	*	*	1.46	.73	.29	.03	2.06	*	*	.91					*	*	1.40	.85	.20	.14	.05	*	*	.81	1.54	1.43	.05	.03	*	*	.37
KULANI CAMP 79		11.80	2.90	.61	.92	1.28	.68	.34	2.01	.08	*	.34	.21	.24	.07	.06	.01	.06	.44	.23	.10	.18	.03	.04	.04	.04	.26	.42		.05	.02	.06	.08
KULANI MAUKA 76	A	4.27	.66	.24	.45	.22	.23	.95	.06		.28								.13	.03							.16						.86
KULANI SCHOOL SITE 78	A	4.80	*	*	*	*	*	*	*	*	2.50	*	*	*	*	.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.80	*	*	*
LANIHAU 68.2		2.09		.32			.41	.61	.31	.15													.21			.08							
MANUKA 2	A	2.23				.08				*	*	.42	T	.02													.17	*	1.32	T	*	*	.22
MAUNA KEA BEACH 98		.03																									.03						
MAUNA LOA SLOPE OBS		1.36		.03		.09	.24	.04	.32	.23	.01																					.40
MIDDLE HOLUALOA 68.1	A	1.14	*	*	*	*	*	*	*	*	*	*	*	1.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MIDDLE PEN 147.1	A	.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.22						
MOAULA 18	A	1.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.35
MOUNTAIN VIEW 91		40.66	3.38	1.42	2.22	9.50	4.54	1.36	2.89	.61	3.98	.27	.30	.14	.15			.28	.49	.55	.58	.54	.23	.24		.04	.83	1.12	.01	.03	.03	.11	4.82
NAALEHU 14	A	1.51	.38	T	T	.03	T	T	T	*	.23	T		.13	T					.17				*	.14	T	.01	.20	.04	.18	*	*	T
NAPOOPOO 28	A	1.14	*	*	.07	*	*	*	*	*	*	.38	*	*	*	*	*	*	.41	*	*	*	*	*	*	.14	*	*	*	*	*	*	.14
NAULU FOREST 38.6		8.88	*	*	*	5.20	*	*	*	*	*	*	2.11	*	*	*	*	*	*	.65	*	*	.39	*	*	T	*	.01	*	*	*	*	.52
NIULII 179	A	14.57	*	*	2.08	3.67	.52	.28	2.24	*	*	1.51					*	*	.70	.05	.10	.05		*	*	.43	1.15	.52	.05		*	*	1.22
OOKALA 223		29.74	1.93	.33	.91	5.21	4.05	1.11	1.60	.28	1.33	.03						.73	2.97	2.00	.11	.42	.13	.61	.06	.14	1.25	2.45	.12	.10	.05	.03	1.79
OPIHIHALE 2 24.1		2.88			.01		.03	.10	T	.03	.20	.31	.25	T	T	.50	T	T	.08	.04	.02	.01	T	.02	T	.14	.01			.01			1.12
ORCHID LAND EST 91.5	A	27.77	*	*	*	*	*	*	22.16	*	*	*	*	*	*	1.13	*	*	*	*	*	*	1.53	*	*	*	*	*	2.95	*	*	*	*
PAAUHAU 217		14.35	1.85	.26	.01	1.47	.63	.14	1.45	.08	2.00	.02							1.80	.60	.06	.07	.01	.12		.31	1.39	1.35	.13	.08			.52
PAAUILO 221		23.02	2.19	1.13	.08	2.78	1.81	.34	1.93	.51	1.59	.08	T					.05	1.80	.89	.13	.22	.01	.16		.38	2.28	2.83	.24	.05	T	T	1.54
PAHALA 21		1.84	.13			.03	.02		.15		.03			.65					.01						.17	.04	.01	.27	.02	.28			
PAHOA 65		24.30	1.25	.52	.83	5.01	3.23	2.49	1.41	.05	.30		.28	.18	.05			.05	.09	.61	.16	.42	.32	.15		.02	.48	1.30	.03	.15	.04	.11	4.77
PAKAO 37	A	6.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.30
PAPAIKOU 144.1		36.76	1.04	.93	2.52	8.05	6.56	1.47	1.74	.05	1.71	.01	.14	.04	.14			.41	2.07	1.68	.50	.38	.22	.07	.17	.09	.42	.93	.02		.04	.02	5.34
PAPAIKOU MAUKA 140.1		52.51	3.67	1.13	1.60	9.48	6.98	1.79	2.76	1.07	4.65	.04	.23	.44	.01	.02		1.64	3.29	.42	.86	.94	.42	.84	.07	.03	1.48	1.70	.01		.12	.09	6.73
PEPEEKEO MAKAI 144		27.96	.52	.30	4.10	4.66	6.90	1.26	1.18	.08	.79	.03	.13	.02				.10	1.18	.40	.13	.07	.33	.13	.20	.02	.13	.96	.10		.07	.02	4.15
PIIHONUA 89	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
POHAKULOA 107	A	.09					*	*	.09																								
PUAKO 95.1	A	.11					.02			.09																							
PUU KIHE 120	A	5.95	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.95
PUU LAAU 102.1	A	1.94	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.94
PUU LEHUA 73	A	1.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40
PUU MALI 113	A	2.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.68
PUUNKUMAU 167	A	9.75	*	*	1.79	.43	.12	.08	2.98	*	*	.16	.01				*	*	.31	.13	.10	.11	.01	*	*	.22	2.63	.59	.03		*	*	.05
PUU OO 82		9.71	1.75	.68	.78	.57	.34	.24	2.65	.06	.74	.25	.10	.25	.05	.02		.13	.07	.15	.10	.13		.02	.02	.05	.21	.16	.03		.03	.01	.12
PUU WAAWAA 94.1	A	1.66			.02			.98	.06						.60				T														
SADDLE ROAD 1 84	A	34.09	*	*	*	*	*	*	22.00	*	*	*	*	*	*	*	*	*	*	*	*	*	10.35	*	*	*	*	*	*	1.74	*	*	*	*
SOUTH POINT CORRAL 3	A	.93	.43	*	*	*	*	*	*	*	.22	*	*	*	*	*	.12	*	*	*	*	*	*	*	*	.15	*	*	*	*	*	.01	*
UMIKOA 118		10.72	*	*	1.27	.73	.21	.16	2.02	.02	*	.52	.02				*	*	.05	.13	.04	*	*	*	*	*	*	4.92	.22	.30			.11	
UPOLU POINT USCG 159.2		4.74	1.14	.27	.03	.17		.02	2.19		.14								.01	.02	.03	.02	.02	.01	.02	.23	.42						
WAIAKEA SCS 88.2		34.61	1.98	1.08	1.69	7.05	5.87	.85	2.80	.51	2.10	.87	.13	.17	.08			.40	1.31	.81	.40	.16	.26	.09	.02	.05	1.44	.99					3.50

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME 2 AM	8 AM	2 PM	8 PM	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	9	0.6	6.6	19	SW	30+	85	80	67	80	1	10	5	5	3	5	29	37	8.0
HONOLULU, OAHU, WBFC	5	10.1	12.6	28	NE	09	82	77	56	76	15	6	1	0	0	1	23	83	5.1
KAHULUI, MAUI, WB AIRPORT	5	12.0	13.0	32	E	02	84	81	63	78	7	7	6	1	1	0	22	72	5.8
LIHUE, KAUAI, WB AIRPORT	5	10.3	12.3	26	NE	31	86	82	72	82	9	7	7	0	0	0	23	49	6.7

See reference notes following Station Index

DAILY TEMPERATURES

HAWAII MARCH 1969

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	63	63	65	67	69	69	68	66	67	65	68	68	68	68	61	65	63	65	69	70	71	68	66	63	61	59	59	62	62	64	61	65.3
	MIN	50	52	51	46	50	51	54	53	51	42	37	42	41	46	42	46	55	55	51	54	48	42	50	51	53	49	49	50	46	50	54	48.7
KILAUEA POINT 1133	MAX	73	76	77	77	77	77	78	78	78	78	78	82	82	78	73	73	75	77	78	77	78	80	80	80	71	73	72	73	75	76	71	76.5
	MIN	67	68	60	69	68	69	64	64	62	67	67	67	64	65	64	67	65	69	64	57	69	63	63	63	61	63	62	65	66	68	64	65.0
LIHUE WB AP 1020.1	MAX	76	75	76	76	76	76	76	77	77	75	77	76	77	77	72	74	75	76	76	77	78	78	75	73	72	73	74	74	75	74	69	75.2
	MIN	68	67	67	70	69	65	68	69	70	63	58	59	59	61	59	63	67	67	68	69	69	63	63	63	62	60	60	62	62	65	66	64.5
MAKAHUENA POINT 940.1	MAX	79	80	79	79	79	79	80	80	80	80	79	83	83	85	86	77	78	79	79	80	81	80	84	72	77	76	77	78	78	77	76	79.4
	MIN	67	68	69	70	68	65	70	62	72	72	64	64	65	64	64	64	67	72	70	72	66	70	68	66	65	62	62	64	66	63	65	66.6
MANA 1026	MAX	84	84	84	81	81	82	83	83	84	84	83	82	83	82	82	83	84	85	84	83	85	85	85	86	82	80	81	81	81	84	85	83.1
	MIN	57	57	57	61	63	61	57	58	59	59	61	61	62	62	62	61	61	62	59	61	59	61	62	63	61	59	59	60	60	59	60	60.1
NIU RIDGE 1035	MAX	80	80	79	80	80	80	81	80	80	79	80	79	81	80	80	80	79	78	79	77	79	83	81	81	79	80	80	80	80	79	78	79.7
	MIN	61	60	55	61	60	60	60	60	61	60	56	57	59	60	60	60	57	57	56	57	55	57	56	56	55	56	56	57	58	57	55	57.7
WAIAHI LOWER 1054	MAX	76	75	75	76	77	79	78	78	76	76	81	80	80	79	77	81	71	74	75	78	78	80	73	72	71	71	77	75	78	74	74	76.3
	MIN	61	62	64	64	62	63	60	65	61	60	63	54	56	54	55	65	61	64	62	65	62	63	55	60	56	58	58	59	60	60	58	60.4
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	79	80	81	81	83	80	82	82	81	82	82	83	85	80	82	78	78	80	80	82	80	81	82	77	77	78	79	78	79	77	81	80.3
	MIN	64	65	66	65	63	63	64	64	63	61	58	60	60	61	65	65	66	67	65	69	63	62	62	65	64	61	61	59	59	63	66	63.2
HONOLULU WBFC 703	MAX	80	82	82	81	84	80	83	83	83	83	80	80	81	78	82	78	79	81	82	83	82	82	82	78	77	79	79	79	80	82	83	80.9
	MIN	66	66	67	69	66	68	69	69	69	68	63	64	63	65	66	67	67	70	68	69	68	67	64	66	65	64	63	61	64	64	67	66.2
HONOLULU SUBSTA 704	MAX	77	77	78	78	80	76	80	80	79	79	79	78		78	77	76	75	77	77	79	79	79	78	73	72	74	75	76	77	78	78	77.3
	MIN	68	68	68	70	70	70	70	70	70	69	66	66	66		67	66	66	68	69	70	70	70	68	65	65	63	66		65	67	66	67.7
KAHUKU 912	MAX			78	78	78	80	78			79	87	89	79	79			78	77	78	78				79	74	72	76	75			76	
	MIN			67	70	70	67	70			69	65	59	61	63			66	68	68	71				65	64	63	66	67			64	
KANEOHE MAUKA 781	MAX	77	76	76	77	76	73	75	77	78	78	79	81	79	80	71	71	70	73	75	74	77	77	78	79	72	69	75	76	75	70	75	75.5
	MIN	65	69	69	69	67	67	68	67	69	68	63	61	63	62	61	64	66	67	69	69	68	67	66	65	62	63	64	65	62	63	66	65.6
LUALUALEI 804	MAX	80	79	79	81	81	82	80	83	83	80	83	81	81	84	80	78	76	81	82	81	81	80	83	82	76	78	79	79	80	78	76	80.2
	MIN	67	68	66	71	65	65	70	71	71	70	61	62	63	64	68	66	67	70	70	72	67	64	63	63	67	64	62	65	65	67	70	66.6
MAKAPUU POINT 724	MAX	79	79	78	75	81	76	82	74	76	75	75	76	79	80	80	78	74	73	76	75	80	75	77	76	72	71	72	73		75	70	76.1
	MIN	68	67	67	70	69	70	70	70	71	70	69	67	69	65	67	67	65	67	63	70	69	70	70	66	64	63	63	68		67	60	67.4
OPAEULA 870	MAX	69	69	70	70	71	72	75	76	74	79	78	77	78	76	72	68	72	74	74	76	75	80	74	81	71	73	75	75	70	75	72	73.9
	MIN	59	59	60	59	56	57	63	63	62	58	58	59	59	64	62	62	64	64	62	66	61	59	58	58	59	59	59	56	56	57	62	60.0
PRI WAHIAWA 820.2	MAX	79	77	77	80	80	81	78	80	82	79	82	82	80	81	75	76	70	75	78	79	80	80	81	80	75	74	75	77	76	74	74	78.0
	MIN	60	62	62	62	60	60	60	64	64	58	56	56	57	58	63	63	64	64	63	64	61	61	58	59	61	59	59	57	58	60	57	60.3
WAIALUA 847	MAX	77	78	79	80	79	81	78	80	80	79	82	79	80	80	78	76	72	76	80	80	81	81	83	80	71	71	75	75	77	76	76	78.1
	MIN	58	62	62	59	59	58	58	58	62	61	57	58	57	61	63	66	66	65	61	62	60	61	61	60	64	62	60	55	56	58	58	60.3
WAIKIKI 717.2	MAX	80	80		81	81	82		83	82	81	82	83	84	84	82	81	80	79	81	81	82	81	82	82	79	77	79	81	79	80	80	81.0
	MIN	66	69		69	70	70		70	70	69	60	62	63	63	62	66	68	70	70	71	70	68	63	67	65	64	62	66	61	69	70	66.7
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	78	78	77	77	78	78	77	79	79	79	79	81	82	82	77		75	73	75	77	79	78		79	73	72	74	77	78	77	76	77.4
	MIN	61	65	65	66	67	67	68	69	70	69	66	66	61	66	66		65	68	68	68	68	67		68	65	65	64	66	64	67	69	66.3
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	74	72	74	75	73	74	75	77		76	76	78	77	78			75	70	69	73	75			75	71		69	72			72	73.9
	MIN	64	59	62	64	61	62	65	64		59	61	58	60	62			62	64	62	63	63			61	59		62	59			61	61.6
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	55	54	59	55	53	57	53	58	58	52	56	57	59	56	58	60	55	62	57	64	66	63	58	62	60	59	64	61	60	58	60	58.4
	MIN	38	40	38	43	37	39	42	39	40	35	36	37	36	38	39	40	43	46	44	43	48	39	38	40	35	39	40	39	38	39	44	39.7
HALEAKALA SUMMIT 338.4	MAX	41	43	44	40	41	40	41	46	48	47	50	48	55	58	52	54	49	42	44	46	45	52	50	52	56	55	55	55	54	56	53	48.8
	MIN	37	34	32	25	33	33	33	35	37	36	34	38	36	37	38	35	34	37	33	35	33	31	34	36	35	38	33	36	33	35	32	34.3
HANA AIRPORT 355	MAX	78	78	78	78	78	81	78	80	80	82	80	80	81	79	78	76	79	74	77	79	80	80	80	79	77	74	75	76	78	80	78	78.4
	MIN	67	66	67	68	68	67	66	67	68	63	67	63	65	61	65	66	69	69	67	66	65	65	65	66	64	63	60	61	67	73	66	65.8
KAANAPALI AIRPORT	MAX	79	79	81	82	82	79	77	83	82	81	81	81	82	81	80	83	82	78	79	81	84	83	82	81	78	74	74	78	78	81	80	80.2
	MIN	65	67	68	70	64	66	65	65	68	61	67	64	64	63	66	67	67	69	68	62	62	66	66	66	65	63	66	65	68	64	66	65.6
KAHULUI WB AP 398	MAX	79	81	81	82	81	82	82	83	81	83	83	84	83	81	78	81	77	79	82	83	85	81	81	78	76	76	77	79	80	79	78	80.3
	MIN	65	63	65	69	61	68	68	61	68	56	58	58	58	58	67	68	67	69	70	67	66	59	68	66	64	62	57	59	60	66	66	63.8
KAILUA 446	MAX	71	72	71	74	72	73	70	74	75	73	76	77	78	78	79	80	78	74	69	74	75	75	77	77	72	67	73	70	74	71	75	74.0
	MIN	60	62	62	61	64	64	64	59	64	61	62	59	60	60	61	61	61	64	65	65	63	63	60	60	62	60	58	58	60	62	64	61.6
KEAWAKAPU BEACH 260.2	MAX	85	87	85	87	85	85	87	88	87	88	83	86	85	88	86	83	83	82	85	89	89	88	86	83	82	80	80	82	82	84	84	85.0
	MIN	59	57	59	61	59	60	60	60	62	57	61	62	61	60	61	61	63	63	64	60	58	60	60	62	64	60	57	57	57	59	63	60.2
KULA SANATORIUM 267	MAX	68	69	69	63	68	69	70	71	71	70	69	71	69	73	71	66	68	67	68	69	71	71	69	70	74	68	67	65	69	70	69	69.1
	MIN	50	52	53	53	54	54	54	53	54	51	52	52	52	53	54	54	55	55	55	52	51	52	53	54	53	50	49	49	50	51	52	52.5
LAHAINA 361	MAX	82	83	83	84	84	83	82	83	82	83	82	82	84	82	85	85	82	83	85	85	85	83	85	83	83	82	81	83	83	81	83	83.0
	MIN	65	64	67	65	65	63	65	64	64	62	64	64	65	64	65	66	67	67	65	64	64	64	66	66	64	61	62	60	61	64	67	64.3

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII MARCH 1969

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
WAILUKU 392	MAX	79	88	79	79	76	81	78	81	76	79	82	83	83	84	82	79	78	77	74	79	81	84		82	78	78	78	78	78	79	79	79.7
	MIN	66	67	67	67	68	68	68	68	69	65	63	63	63	63	65	68	68	68	69	68	67	66		68	65	62	62	62	62	67	67	66.0
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	75	73	76	78	77	78	70	78	79	77	78	80	80	82	81	78	80	79	79	76	77	79	79	79	76	68	73	72	78	79	79	77.2
	MIN	60	60	61	61	61	60	61	62	61	58	58	57	60	61	59	60	62	62	63	63	61	60	62	61	61	59	60	59	59	61	62	60.5
HAWAII VOLCNS NP HO 54	MAX	58	57	58	65	58	63	62	64	66	64	66	60	62	67	67	67	67	66	66	62	63	65	66	66	65	61	61	64	63	64	68	63.6
	MIN	51	50	50	53	53	50	51	52	53	47	49	46	52	49	50	53	50	55	53	51	51	51	50	50	53	50	47	47	46	50	53	50.5
HILO WB AIRPORT 87	MAX	78	79	71	75	82	75	81	81	80	81	80	82	82	83	82	83	82	81	81	81	82	82	81	78	73	78	78	80	80	81	76	79.6
	MIN	67	65	65	65	65	65	66	66	66	60	65	62	64	64	65	65	67	69	68	66	65	66	65	66	67	67	61	63	65	66	67	65.3
KAINALIU 73.2	MAX	76	77	77	77	78	78	78	79	78	78	75	77	78	78	75	78	78	79	79	78	78	75	78	77	75	78	78	77	76	78	79	77.4
	MIN	60	58	57	60	60	61	61	59	60	59	58	58	60	59	59	59	61	61	61	60	62	59	60	60	59	60	60	57	59	60	61	59.6
KAMUELA 192.2	MAX	65	66	68	70	69	70	70	68	71	69	74	74	75	76	76	75	72	77	70	68	70	69	76	70	70	65	67	70	70	68	69	70.5
	MIN	53	54	53	55	54	52	56	55	57	54	47	45	48	47	50	54	56	58	56	57	55	55	56	54	57	53	52	52	54	55	54	53.5
KAMUELA AIRPORT 191	MAX	68	68	70	71	71	71		69	71	70	84	74	74	76	75	74	72	74	71	69	70	72	72	71	71	66	66	66	69	69	70	71.1
	MIN	56	57	52	56	45	49		57	58	47	47	43	48	48	47	46	52	48	49	59	58	48	48	53	50	46	51	50	48	52	56	50.8
KEAAU 92	MAX	79	79	79	71	74	79	71	82	82	82	80	80	81	83	83	83	83	82	82	80	80	82	82	82	80	76	78	76	81	81	81	79.8
	MIN	62	62	62	63	63	62	62	59	59	59	60	65	63	61	63	63	63	66	65	64	63	62	62	62	64	60	60	60	62	62	62	62.1
KEALAKEKUA 26.2	MAX	76	78	77	78	78	79	77	79	78	78	78	75	78	80	75	77	78	79	79	80	78	77	77	78	77	77	78	77	76	77	80	77.7
	MIN	60	59	59	60	61	62	62	61	61	60	59	60	61	59	60	60	62	61	62	61	63	60	61	61	60	61	60	58	61	61	61	60.5
KOHALA MISSION 175.1	MAX	74	73	73	75	72	76	71	77	77	76	77	80	79	79	79	78	78	79	77	75	77	77	78	77	74	67	74	74	76	76	77	75.9
	MIN	62	63	64	64	64	65	65	65	65	63	60	60	62	62	63	63	64	64	66	67	66	65	64	65	64	62	60	61	61	63	64	63.4
KONA AIRPORT 68.3	MAX	79	82	83	80	80	81	81	82	82	81	80	78	82	82	81	82	83	81	80	81	82	82	82	82	81	82	82	80	80	82	82	81.2
	MIN	61	60	63	63	61	61	62	60	65	60	65	61	62	61	62	65	62	62	62	65	64	68	65	68	64	64	61	61	61	66	66	62.9
KULANI CAMP 79	MAX	55	55	58	60	58	60	60	60	61	62	63	59	63	63	62	63	61	64	64	59	58	55	55	60	60	58	58	69	58	59	58	59.9
	MIN	43	46	42	48	44	46	48	48	46	47	43	42	45	42	42	49	44	49	48	48	46	42	42	42	50	45	42	39	42	41	42	44.6
MAUNA KEA BEACH 98	MAX	89	90	91	83	83	82	88	92	73	83	83	84	82	83	84	83	88	85	85	88	92	84			87	88	86	83	84	83	85	85.2
	MIN	70	71	67	71	69	69	71	71	71	66	66	65	67	66	67	68	70	70	72	72	71	70			68	66	65	67	66	67	71	68.6
MAUNA LOA SLOPE 08S	MAX	44	47	45	45	42	43	43	42		45	49	50	49	52	53	52	47	51	55	55	56	53	54	54	50	52	48	48	47	47	44	48.7
	MIN	28	28	25	29	24	30	31	30		28	28	29	31	33	33	34	30	29	35	36	34	34	33	37	33	34	30	28	30	32	32	30.9
MOUNTAIN VIEW 91	MAX	68	69	68	69	68	71	66	72	76	70	74	71	76	78	77	78	75	75	77	74	74	75	76	75	73	67	68	71	72	73	75	72.6
	MIN	59	59	58	58	59	57	58	60	61	53	54	57	57	56	57	61	60	60	61	61	60	58	58	56	59	57	55	55	58	58	60	58.1
NAALEHU 14	MAX	77	77	76	78	78	78	78	76	78	78	77	78	78	78	78	79	79	79	79	78	78	78	79	79	78	74	76	73	73	79	79	77.6
	MIN	64	64	63	65	66	63	66	66	63	63	65	62	66	64	64	63	63	67	65	66	67	67	61	61	66	64	63	60	60	61	61	63.8
OOKALA 223	MAX	71	73	74	75	72	77	71	77	78	77	77	79	78	79	81	78	79	79	79	76	78	78	78	79	78	68	74	76	75	77	78	76.4
	MIN	62	64	63	63	63	63	65	64	65	63	63	62	62	63	64	64	64	65	60	64	68	64	63	64	63	61	61	64	62	64	64	63.4
OPIHIHALE 2 24.1	MAX	76	78	79	80	76	78	79	80	74	78	78	76	78	73	75	78	77	75	78	78	74	77	76	74	72	78	76	79	79	79	80	77.0
	MIN	56	54	55	56	58	57	57	60	56	55	56	55	56	57	57	57	58	59	58	59	59	60	61	56	58	58	56	58	58	58	57	57.3
PAHALA 21	MAX	74	75	76	79	77	77	78	78	78	78	78	74	79	77	78	78	78	78	78	78	76	78	79	75	75	76	76	76	76	79	80	77.2
	MIN	62	60	60	62	60	59	60	59	63	58	59	57	60	63	60	58	60	61	60	63	63	61	57	58	58	61	59	58	57	57	60	59.8
UPOLU POINT USCG 159.2	MAX	75	76	74	76		78	77	78	78	79	78	83	82	82	80	78	80	81	81	79	79	80	80	78	82	75	78	77	78	79	80	78.7
	MIN	64	67	67	66		64	64	64	67	67	68	64	64	64	68	64	67	64	64	69	68	65	67	68	65	64	65	64	64	66	65	65.6

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.33	.34	.27	.28	.26	.25	.31	.21	.35	.32	.30	.21	.20	.20	.21	.09	.20	.16	.31	.33	.33	.35	.27	.12	.15	.24	.19	.19	.27	.32	.26	7.82
	WIND	205	230	220	201	163	147	193	170	155	170	91	68	69	53	74	78	170	180	185	200	216	131	67	162	154	128	126	127	165	185	226	4709
	MAX	81	78	83	85	85	88	81	85	85	85	87	86	89	86	83	77	82	81	83	85	86	87	89	77	78	76	81	82	81	82	80	83.0
	MIN	61	64	65	67	66	66	64	63	66	64	59	59	60	60	62	61	64	76	65	65	65	63	65	64	62	61	61	62	62	63	63	63.5
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.25	.26	.24	.20	.22	.18	.17	.27	.23	.27	.20	.18	.23	.24	.04	.15	.13	.08	.22	.28	.25	.18	.22	.22	.14	.26	.15	.25	.23	.23	.17	6.34
	WIND	43	52	44	45	37	23	43	36	28	32	21	12	15	20	10	21	19	27	39	36	43	26	19	28	46	36	25	26	24	27	33	958
	MAX	86	87	88	83	88	85	87	89	89	90	89	94	94	95	76	87	80	81	89	91	89	87	92	91	83	88	83	89	86	87	80	87.2
	MIN	61	63	64	65	64	65	64	65	65	62	64	65	65	66	65	65	66	67	65	65	64	65	65	66	63	62	63	60	61	54	64	63.8

See Reference Notes Following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		OBSERVER
ISLAND OF KAUAI														
ALEXANDER RESV. 98		0140	02	KOLOA	2	21 57	159 32	1610				C		MC BRYDE SUGAR CO.
ANAHOLA 1111	A	0145	01	KAWAIHAU	1	22 09	159 19	116		7A				LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A				MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A				MC BRYDE SUG CO LTD
EWA 3 RESERVOIR 1094.1		0465	02	KAWAIHAU	2	22 06	159 22	350				C		LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A				MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A				LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A				GROVE FARM CO LTD
HANALEI TUNNEL 1053		1170	01	KAWAIHAU	1	22 05	159 28	1218					S	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A				KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A				LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690		WI			S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A	2974	01	HANALEI	1	22 11	159 26	400		7A				KILAUEA SUG PLTN CO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C		KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHOU	1	22 08	159 22	800		7A				LIHUE PLANTATION
KAPAA STABLES 1106	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C		LIHUE PLTN CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A				LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C		KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	1	22 13	159 25	317		6A		C		KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4566	01	HANALEI	1	22 11	159 24	415		7A				KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4568	01	HANALEI	1	22 14	159 24	180	8A	8A				U S COAST GUARD
KITANO 1037.1		4650	03	WAIMEA	3	22 02	159 41	2150				C		KEKAHA SUGAR CO.
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A				KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A				GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A				GROVE FARM CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A				KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A				MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		C		HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A				LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C	J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1		5785	02	KOLOA	2	21 52	159 27	52	8A	8A				U S COAST GUARD
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A				OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A				KEKAHA SUGAR CO LTD
M + M 1001		6097	02	KOLOA	2	21 55	159 28	300				C		GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		MID			S	U S GEO SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A				LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148		MID			S	U. S. GEO. SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A				KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A				LIHUE PLTN CO LTD
N WAILUA RIVER 1055		6893	01	LIHUE	2	22 04	159 26	650					S	LIHUE PLTN CO LTD
NH WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		C		MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		C		PRINCEVILLE RANCH
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		7A				KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A				GROVE FARM CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A				GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	02	LIHUE	2	22 04	159 27	740				C		LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C		MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100		MO				MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	565	6A	6A				LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		8A				LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A				KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A				LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 57	159 41	20		8A				WAIMEA SUG MILL CO
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A				MC BRYDE SUG CO LTD
ISLAND OF OAHU														
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C		DON MITCHELL
AIEA FIELD 625 761	A	0111	03	EWA	3	21 25	157 57	455		7A				WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A				BOARD OF WTR SUPPLY
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A		C		DEL MONTE CORPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P				BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A				U OF H MARINE LAB
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C		J. L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9A	7A		C		EWA PLANTATION CO
HALAWA SHAFT 771.2		0964	02	HONOLULU	2	21 23	157 54	170				C		BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274		WI		C		WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220		VAR		C		H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A			U S COAST + GEODETIC
#HONOLULU WBFC 7 3	R	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	J	U S WEATHER BUREAU
#HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C		ESSA-WEATHER BUREAU
H S P A EXP STA 7 7		2146	02	HONOLULU	2	21 18	157 50	50		8A				H S P A EXP STATION
KAALAKEI 724.6		2269	02	HONOLULU	2	21 18	157 43	10				C		MRS. MILLIE ZAPATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800		WI				WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A				KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A				KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910		MID				BOARD OF WTR SUPPLY
KAMEHAME 724.7		3056	01	KOOLAUPOKO	1	21 19	157 41	1380						HAWAII NATIONAL GUARD
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A				STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A				KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	01	KOOLAULOA	1	21 36	157 54	10						GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A				WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WAIALUA	5	21 34	157 59	1180		WI				WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3		3825	02	KOOLAUPOKO	1	21 40	158 00	1050						HAWAII NATIONAL GUARD
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A				C + F OFFICER HEOG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A				USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 08	1500		WI				U S NAVY
LULUKU 781.7		5655	01	KOOLAUPOKO	1	21 24	157 49	240						MILNOR LUM
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A				LUNALILO HOME
MAKAHA KAI 796	A	5766	04	WAIANAE	4	21 28	158 13	25		7A				CAPITAL INVEST CO
MAKAHA VALLEY 80 .1	A	5781	04	WAIANAE	4	21 29	158 12	160		8A		C		CLOSED 2/26/69
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		C		CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	538	8A	8A				U S COAST GUARD
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A				MRS.JOHN H.BLAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650		MID				BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1	21 21	157 46	410						EXP. STA. H.S.P.A.
MOANALUA 77		6395	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4025				C		FEDERAL AVIATION ADM.
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MID				BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		VAR				BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C		WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995		MID				BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640		MID				BOARD OF WTR SUPPLY
PEARL CITY ILRCE 754.1		7933	03	EWA	3	21 25	157 58	240				C		JAMES MUMENO
PORTLOCK ROAD 724.4		8126	02	HONOLULU	2	21 17	157 43	6		7A				MRS ALFREO FRANCO, JR.
PRI WAHIAWA 820.2	A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C		PINEAPPLE RESEARCH INST
PUNALUU 884	A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A				KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	1	21 39	158 02	900				C		JACK N. WHEELER
ST STEPHENS SEM 788		8670	01	KOOLAUPOKO	1	21 22	157 47	488		7A				REV R CULLINAN
TANTALUS PEAK 780		8730	02	HONOLULU	2	21 20	157 49	2000				C		BOARD OF WATER SUPPLY
TANTALUS 2 78 .5		8738	02	HONOLULU	2	21 20	157 50	1325		7A				R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A				DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C		WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C		WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A				SPENCER TINKLR
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C		WAIALUA SUGAR CO. INC.
WAIANAE 798	A	9231	04	WAIANAE	4	21 27	158 11	10		8A				CAPITAL INVEST CO
WAIANAE MAUKA 803	A	9236	04	WAIANAE	4	21 29	158 09	1575		WI				CAPITAL INVEST CO
WAIAWA 836	A	9261	03	EWA	3	21 28	157 56	800		MO				WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI				WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE RESV. 723.2	A	9495	02	HONOLULU	2	21 18	157 45	170		WI				BOARD OF WTR SUPPLY
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180						WAILUPE VALLEY SCHOOL
WAIMANALO 794	A	9521	01	KOOLAUPOKO	1	21 21	157 44	60		8A				ST DIV WTR + LAND DEV
WAIMEA 892	A	9593	05	WAIALUA	5	21 38	158 04	330		7A				WAIALUA SUGAR CO. INC.
WAIPAHU 755	A	9738	03	EWA	3	21 23	158 01	59		8A				OAHU SUGAR CO
WILHELMINA RISE 721		9980	02	HONOLULU	2	21 18	157 47	1100		MID				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI														
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6		3046	01	MOLOKAI	1	21 04	156 52	60				C		W. J. CARSTEN
KAUNAKAKAI 536	A	3541	01	MOLOKAI	1	21 06	157 01	12		6A				MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1	21 06	157 01	70						MOLOKAI GENERAL HOSPITA
KLOHELELE PENJ 551	A	4394	01	MOLOKAI	1	21 12	157 12	560		WK				MOLOKAI RANCH. LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C		DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A				H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C		LIBBY MCNEILL + LIBBY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUUOHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C		PUUOHOKU RANCH
ISLAND OF MOLOKAI														
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550		TW		C		MOLOKAI RANCH
ISLAND OF LANAI														
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650		WI		C		DOLE COMPANY
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C		DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A				DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370		WI		C		STATE DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 53	156 55	1430		MO				DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150		WI		C		DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040		WM				DOLE COMPANY
ISLAND OF MAUI														
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060		VAR				ULUPALAKUA RANCH
FIELD 46 474		0541	04	LAHAINA	4	20 59	156 38	1050				C		MAUI PINEAPPLE CO.
HAELAAU 477	A	0790	04	LAHAINA	4	20 57	156 36	2980					S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A				HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C		U OF MICH MT HKALA OBSY
HALEHAKU 492.2		1016	02	MAKAWAO	1	20 55	156 17	690				C		PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A				MAUI PINEAPPLE CO.
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM + SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	120		8A		C		HARRY HASEGAWA
HANA AIRPORT 355		1125	01	HANA	1	20 48	156 01	61	11A	11A				HAWAIIAN AIRLINES
HANAHULI 281		1148	01	HANA	1	20 41	156 01	325		7A				KOALI RANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930		MO				HALEAKALA NATL PARK RGS
HONOKOMAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870		MO				MAUI PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A				MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A	1914	04	LAHAINA	4	21 01	156 38	125					S	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280		MO				HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	03	WAILUKU	3	20 53	156 33	1100				C		STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A				AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	4	20 59	156 33	650				C		EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 38	2000		WI				PIONEER MILL CO LTD
KAHULUI WB AP 398	R	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C	J	U S WEATHER BUREAU
KAILIILI 436	A	2630	01	MAKAWAO	1	20 51	156 16	2520		MO				E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A				E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 38	1585		WI				PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	2	20 39	156 08	1020				C		KAUPO RANCH
KEAHUA 410		3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM + SUG CO
KEANAE 346	A	4091	01	HANA	1	20 50	156 10	980		MO				E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A			S	A. L. CORELL
KIHEI 311		4489	03	WAILUKU	3	20 47	156 27	90		7A		C		HAWAIIAN COM + SUG CO
KIPAHULU 258		4634	01	HANA	1	20 39	156 04	260		7A				KIPAHULU CATTLE COMPANY
KUKUI 380	A	4887	04	LAHAINA	4	20 54	156 35	5788					S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C		KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C		PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR				PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A				PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240		MO				E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A				PIONEER MILL CO LTD
MOKUPEA 475		6521	04	LAHAINA	4	20 59	156 37	1290					S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340		VAR				MAUI PINEAPPLE COMPANY
OLINDA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR				MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P				PIONEER MILL CO.
OLOWALU GULCH 377	A	7066	04	LAHAINA	4	20 51	156 36	800		MO				PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	1	20 49	156 07	1260		6A		C		E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	1	20 55	156 23	170		6A				HAWAIIAN COM + SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570		WI				KAUPO RANCH CO.
PAUWELA 490	A	7857	01	MAKAWAO	1	20 55	156 19	485		7A				MASEROI PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR				STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A	8336	01	HANA	1	20 50	156 13	2980		MO				E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500		MO				PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A				HAWAIIAN COM + SUG CO
PUU PAKI 352		8553	01	HANA	1	20 46	156 03	2160					S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A				HAWAIIAN COM + SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR				KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230		MO				HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	4	20 48	156 35	75		7A				PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C		ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	580		8A				PIONEER MILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A				WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	1	20 52	156 12	1200		WM				E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C		MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A				WAILUKU SUGAR CO
WAILUA IKI 348		9460	01	HANA	1	20 48	156 09	2630					S	EAST MAUI IRRIGATION CO
WAILUKU 392		9484	03	WAILUKU	3	20 54	156 30	200	8A	8A				ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A	9765	02	HANA	2	20 38	156 12	220		OC				HALEAKALA RANCH CO
ISLAND OF HAWAII														
AHUA UMI 75	A	0040	05	N KONA	5	19 38	155 47	5220		MO				GREENWELL RANCH
AWINI 182.1	A	0190	01	N KOHALA	1	20 10	155 43	1870		WI				KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A	0450	01	S KOHALA	1	20 07	155 43	4240		MO				KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C		HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A				PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648		MO				HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770		MO				KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220		MO				STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C		HAWAII NAT PARK
HAWI 168	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C		KOHALA SUGAR CO
HILO WB AIRPORT 87	R	1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C	J	U S WEATHER BUREAU
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220		MO				STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A				VARIOUS RANCH HANDS
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A				CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A				PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A	1864	01	N KOHALA	1	20 09	155 44	800		7A				KOHALA DITCH CO LTD
HONOMU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A		C		PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250		MO				STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190		MO				STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A				HUEHUE RANCH
KAALA IKI 12	A	2249	03	KAU	3	19 08	155 34	1340		7A				HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1330		8A				CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4		2512	03	KAU	3	19 08	155 46	3700				C		RUSSELL P. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A				KONA EXPERIMENT STA
KALAPANA NO 1 67.8		2894	02	S HILO	2	19 20	155 02	10		VAR				HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375		WI				HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A				PARKER RANCH
KAMUELA AIRPORT 191		3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A				HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A				HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3369	02	PUNA	2	19 30	154 52	290		VAR				BOARD OF WATER SUPPLY
KAUMANA 88.1		3510	02	S HILO	2	19 41	155 09	1123		6A		C		SHIGEO MASUYA
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080		WI				HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	280	8A	8A				PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	03	KAU	3	19 14	155 29	1700				C		HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C		MISS AMY GREENWELL
KEANAKOLU CAMP 124.2		4098	02	HAMAKUA	2	19 55	155 21	5280				C		STATE DIV. OF FORESTRY
KEHENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840		WI				KOHALA DITCH CO LTD
KIOLAKAA A + F 6	A	4625	03	KAU	3	19 04	155 38	1925		MO				STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490		WI				MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		7A				KOHALA SUGA9 CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A				KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A				K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720		WI				HONOKAA SUGAR CO
KONA AIRPORT 68.3		4764	04	N KONA	4	19 39	156 01	17	8A	8A		C		HAWAIIAN AIRLINES
KONA VILLAGE 93.8		4765	04	N KONA	4	19 52	155 55	15		8A				KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1	20 02	155 21	840		6A				HAMAKUA MILL CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A				HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	1	20 08	155 34	300		6A				HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A				ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300		WI		C		U S WEATHER BUREAU

STATION INDEX

STATION	INDEX NO.		DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII													
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01	S KOHALA	1	20 01	155 41	2615				E	STATE DEPT OF L + N RES
LANIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1		5460	02	PUNA	2	19 29	154 54	650				E	STATE DIV. OF PARKS
MANUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HULUALOA 68.1	A	6268	04	N KONA	4	19 37	155 58	675		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03	KAU	3	19 11	155 30	600		MO			HAWAIIAN RANCH CO
MOUNTAIN VIEW 91		6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A	6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6		6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A	6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223		7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIMIHALE 2 24.1		7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A	7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217		7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAUILO 221		7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21		7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65		7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A	7643	03	KAU	3	19 22	155 28	5000		MO			HAWAIIAN RANCH CO. INC.
PAPAIKOU 144.1		7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1		7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144		8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A	8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 147	A	8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		E	STATE DIVISION OF PARKS
PUAKO 95.1	A	8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIHE 120	A	8393	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIAU RANCH CO
ISLAND OF HAWAII													
PUU LAAU 102.1	A	8452	05	HAMAKUA	5	19 50	155 36	7440		MO			STATE DIV OF FISH-GAME
PUU LEHUA 73	A	8460	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A	8515	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUOKUMAU 167	A	8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82		8550	02	S HILO	2	19 44	155 23	6340		6A			W. H. SHIPMAN, LTD
PUU WAAWAA 94.1	A	8555	05	N KONA	5	19 47	155 51	2520		7A		E	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A	8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A	8675	03	KAU	3	18 57	155 41	400		WI			HUTCHINSON SUGAR CO
S POINT TRACKING STA		8679	03	KAU	3	18 57	155 41	305				E	FEDERAL ELECTRIC CORP
UMIKOA 118		8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCD 86.2		9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 178.6		9350	01	N KOHALA	1	20 08	155 47	3830				E	KAHUA RANCH

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table; "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

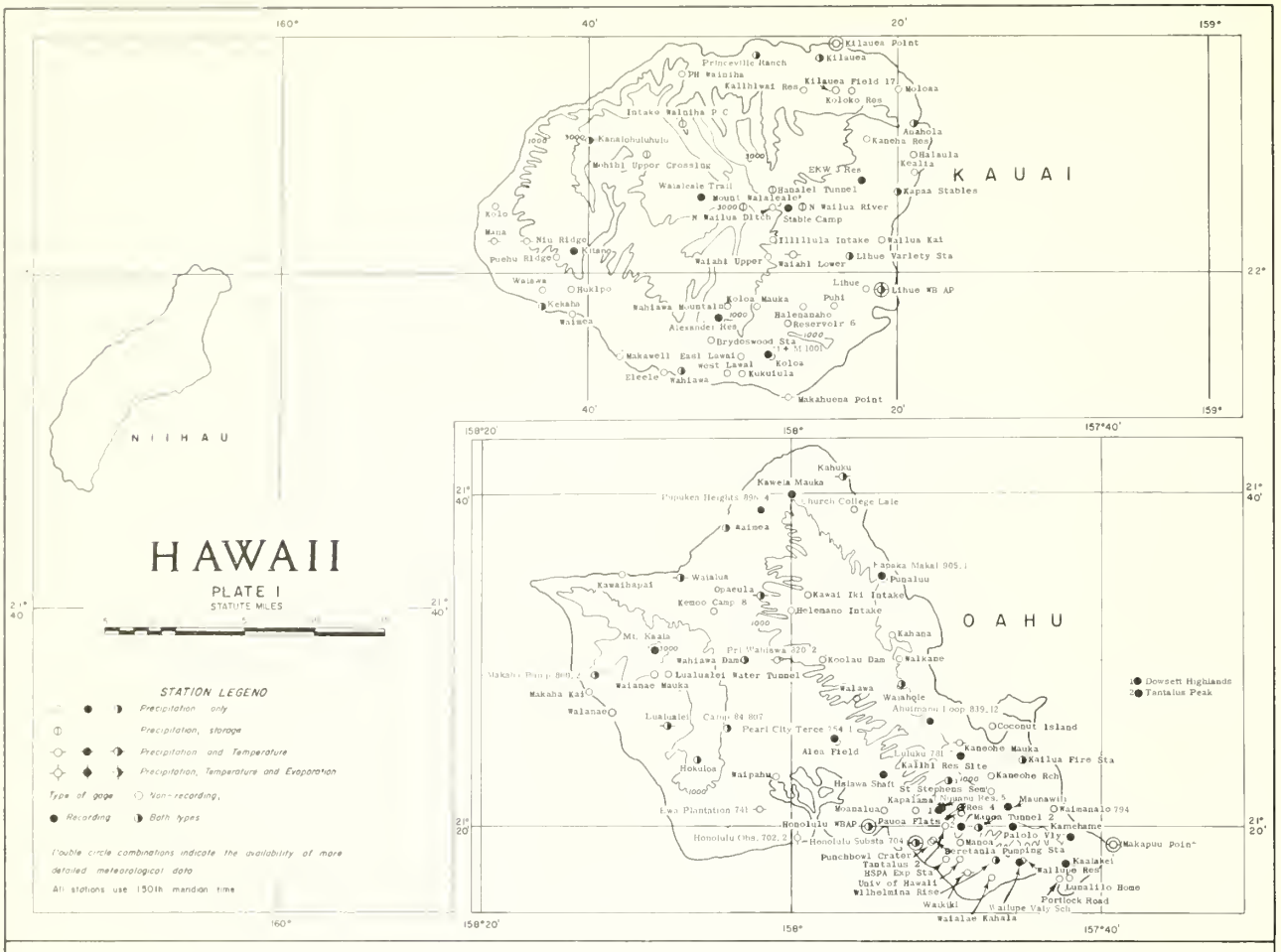
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

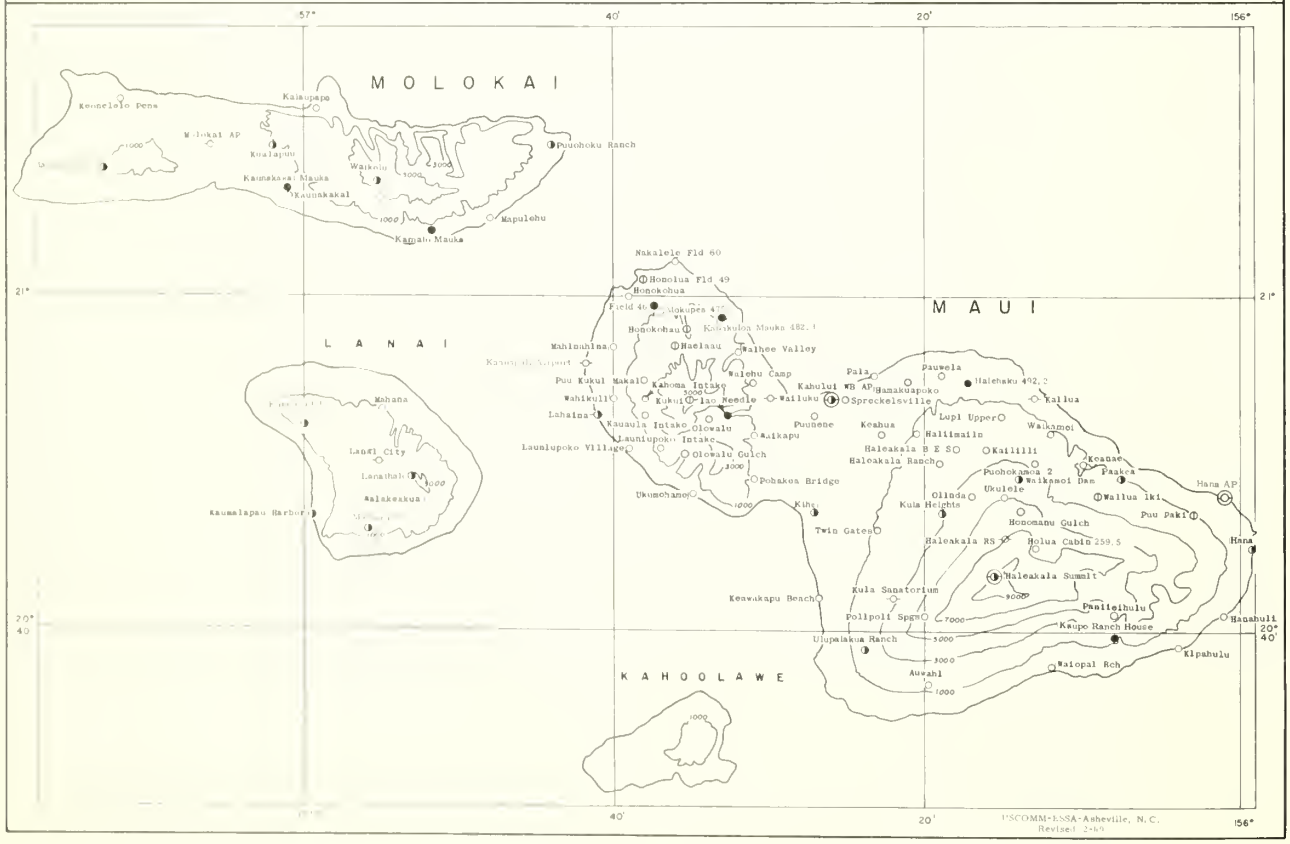
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

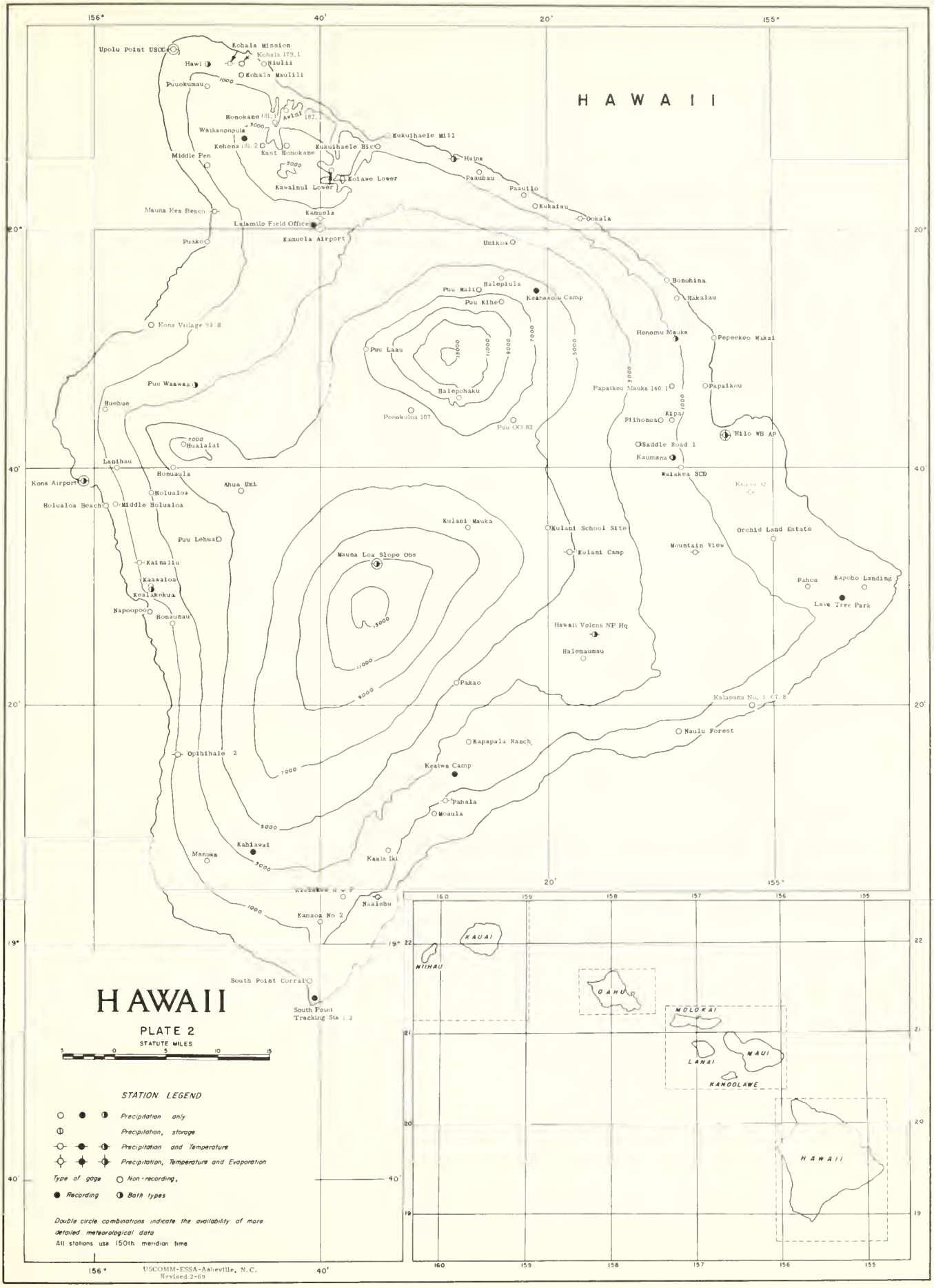
Subscription Price 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

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Revised 2-69

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

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AUG 22 1969
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HAWAII
APRIL 1969
Volume 65 No. 4

CLIMATOLOGICAL DATA

Station		Temperature								No. of Days				Precipitation				Snow, Sleet			No. of Days		
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																							
ISLAND OF KAUAI																							
ANAHOLA 1111	A													1.61	- 2.50			.0	0		0	0	
KANALOHULUHULU 1075		65.8	51.5	58.7		74	15	45	26	0	0	0	0	2.25		.45	20	.0	0		8	0	0
KAPAA STABLES 1104	A													2.65		1.10	1	.0	0			1	1
KILAUEA FIELD 17 1135	A													5.32	- 2.49			.0	0				0
KILAUEA POINT 1133		76.7	66.0	71.4		84	25	59	3	0	0	0	0	1.41		.26	11	.0	0		7	0	0
KOLOA 936	A													7.70	2.97	3.30	1	.0	0				1
LIHUE WB AP 1020.1	R	76.9	67.0	72.0	- .5	83	30	62	7+	0	0	0	0	1.52	- 1.82	.27	12	.0	0		6	0	0
MANA 1026		83.3	62.3	72.8	.1	87	17+	58	24+	0	0	0	0	.07	- 1.18	.07	1	.0	0		0	0	0
N WAILUA DITCH 1051	A													15.44		4.90	1	.0	0				
PH WAINIHA 1115														18.25	5.98	9.02	1	.0	0		20	7	4
PUEHU RIDGE 1040														.38		.28	1	.0	0		2	0	0
WAHIAWA 930	A													4.06	2.14	3.20	1	.0	0			1	1
WAIAHI LOWER 1054		75.6	62.3	69.0		80	27	58	7+	0	0	0	0	9.99		3.48	1	.0	0		17	5	1
WAIMEA 947														.03	- 1.10	.03	20	.0	0		0	0	0
ISLAND				68.8										5.05				.0					
* * *																							
ISLAND OF OAHU																							
HONOLULU OBSERV 702.2														.40		.20	1	.0	0		2	0	0
HONOLULU WBFC 703	R	81.7	67.6	74.7	.5	86	27	63	5	0	0	0	0	.10	- 1.21	.06	20	.0	0		0	0	0
KAHUKU 912	A	78.1M	68.0M	73.1M	- .1	82	28	63	25	0	0	0	0	1.81	- 1.04	.80	1	.0	0			1	0
KANEOHE MAUKA 781		76.3	66.4	71.4	- 1.1	81	26	62	9	0	0	0	0	5.11	- .42	1.28	1	.0	0		12	2	1
KOOLAU DAM 833														11.61	4.66	3.13	20	.0	0		13	8	2
LUALUALEI 804		81.7	68.8	75.3		86	30+	65	24+	0	0	0	0	V .56				.0	0			0	0
MAKAPUU POINT 724		76.8	64.9	70.9		85	25	57	22	0	0	0	0	1.09	- .69	.26	20	.0	0		5	0	0
NUUANU RES 4 783														2.84	- 7.17	.52	29	.0	0		10	1	0
OPAEULA 870	A	74.7	62.1	68.4	.4	82	29+	56	5	0	0	0	0	3.69	- .47			.0	0				
PALOLO VALLEY 718														13.08	.57	2.96	29	.0	0		19	8	4
PRI WAHIAWA 820.2	A	79.2	62.1	70.7		84	29+	57	5	0	0	0	0	1.70		.44	1	.0	0			0	0
PUNALUU 884	A													4.12		1.25	1	.0	0				1
WAHIAWA OAM 863	A													6.18				.0	0				
WAIAHOLE 837	A													12.22	- 1.08	3.54	1	.0	0				
WAIALUA 847	A	78.6	63.3	71.0	- .5	83	29	57	23+	0	0	0	0	1.07	- .65			.0	0			0	0
WAIKIKI 717.2		81.1	68.4	74.8		87	26	62	24	0	0	0	0	.50		.15	1	.0	0		2	0	0
WAIPAHU 750	A													.33	- 1.55	.10	1	.0	0		1	0	0
ISLAND				72.3										4.12				.0					
* * *																							
ISLAND OF MOLOKAI																							
KUALAPUU 534	A													2.12	- .94			.0	0			0	0
MAPULEHU 542														2.68	- .37	.33	19	.0	0			0	0
MAUNALOA 511	A													.96	- 1.35	.37	20	.0	0			0	0
MOLOKAI AP 524		76.9	67.5	72.2		84	26	62	24	0	0	0	0	1.12		.20	20	.0	0		3	0	0
ISLAND				72.2										1.72				.0					
* * *																							
ISLAND OF LANAI																							
LANAI CITY 672	A	73.7M	62.0M	67.9M	.9	79	26	58	7	0	0	0	0	.93	- 1.99	.62	2	.0	0			1	0
ISLAND				67.9										.93				.0					
* * *																							
ISLAND OF MAUI																							
HALEAKALA 8 E S 434	A													18.70	10.74	5.67	2	.0	0		18	10	5
HALEAKALA RS 338		61.0	43.0	52.0		69	9	35	5	0	0	0	0	6.66		2.80	2	.0	0		7	4	3
HANA AIRPORT 355		78.2	67.0	72.6		82	15	63	6	0	0	0	0	7.05		2.52	1	.0	0		13	3	1
HONOKOHUA 493	A													2.55	- .63			.0	0			0	0
KAANAPALI AIRPORT		80.1M	66.5M	73.3M		85	29+	61	5	0	0	0	0					.0	0			0	0
KAHULUI WB AP 398	R	81.1	65.8	73.5	.1	86	24	59	9	0	0	0	0	1.79	.35	.62	1	.0	0		5	2	0
KAILUA 446		73.3	62.9	68.1	- 1.0	81	27	60	11+	0	0	0	0	17.39	5.86	4.26	1	.0	0		23	9	3
KEANAE 346	A													42.40	17.30			.0	0				
KIPAHULU 258														6.75	- .29	1.63	2	.0	0		16	4	1
KULA SANATORIUM 267		70.3	53.9	62.1	.1	75	27+	50	7	0	0	0	0	.66	- 2.03	.60	2	.0	0		1	1	0
LAHAINA 361		82.9	65.1	74.0		87	26	59	7	0	0	0	0	.10	- .95	.08	2	.0	0		0	0	0
PAIA 406														3.16	.03	.65	2	.0	0		9	1	0
WAILUKU 392		79.1M	67.4M	73.3M	.7	85	25	64	24	0	0	0	0	2.65	- .05	.42	1	.0	0			0	0
ISLAND				68.6										9.16				.0					
* * *																							
ISLAND OF HAWAII																							
HAINA 214		75.6	61.8	68.7	- 1.3	80	26	58	9	0	0	0	0	14.62	6.95	3.37	2	.0	0		22	7	3
HAWAII VOLCNS NP HO 54		62.8	52.1	57.5	- 1.6	69	26	47	10	0	0	0	0	11.10	2.70	1.84	12	.0	0		20	7	3
HILO WB AIRPORT 87	R	79.1	66.4	72.8	1.2	82	25	62	10+	0	0	0	0	14.57	2.65	2.41	11	.0	0		22	9	3
HUEHUE 92.1	A													3.50	.49			.0	0				
KAINALIU 73.2		76.5	61.7	69.1		80	28+	58	7	0	0	0	0	3.47	- 2.19	1.09	1	.0	0		11	1	1
KAMUELA AIRPORT 191		69.0M	54.6M	61.8M		78	26			0	0	0	0			.70	11	.0	0			1	0

See Reference Notes Following Station Index

Station	Temperature												Precipitation									
									No. of Days								Snow. Sleet			No. of Days		
									Max.		Min.											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	78.9	62.7	70.8	- .3	83	16	60	9+	0	0	0	0	21.66	9.24	3.62	1	.0	0		27	13	6
KEALAKEKUA 26.2	76.7M	62.5M	69.6M		80	29	59	7	0	0	0	0	4.82		2.64	1	.0	0		8	2	1
KONA AIRPORT 68.3	80.6	65.3	73.0		84	13	61	12	0	0	0	0	1.85		.80	1	.0	0		4	1	0
KUKUIHAELE HIC 199													14.64	5.41	2.15	2	.0	0		24	10	4
KULANI CAMP 79	60.2M	45.8M	53.0M		66	28	38	9+	0	0	0	0	15.85		3.50	12	.0	0		23	7	5
MAUNA KEA BEACH 98	85.7M	70.4M	78.1M		91	13	66	7+	2	0	0	0					.0	0			0	0
PAHALA 21	78.5	61.3	69.9	.1	84	14	57	5	0	0	0	0	1.32	- 1.84	.40	30	.0	0		4	0	0
POHAKULOA 107 A													.30				.0	0			0	0
PUAKO 95.1 A													.06		.06	1	.0	0		0	0	0
PUU WAAWAA 94.1 A													.17	- 2.13	.08	1	.0	0		0	0	0
UMIKOA 118													19.29	9.96			.0	0				
WAIAKEA SCO 88.2													38.25		7.06	12	.0	0		30	21	14
ISLAND			67.5										10.34				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 13TH AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 29° ON THE 7TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 38.25 INCHES AT WAIAKEA SCO 88.2, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 8 STATIONS

GREATEST ONE-DAY PRECIPITATION: 16.21 INCHES ON THE 2D AT WAIKAMOI DAM 336, MAUI

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
APRIL 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • •																																	
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	1.61	.25	.10	.02	•	•	•	.24	.02	.01	.10	.04	•	•	.30	.02		.03	.10	•	•	.13	.08				•	•	.15		.02	
BRYDESWOOD STA 985	A	5.58	3.65	.05	.03	•	•	•	.02		.10	.06	.08	•	•	.35	.03		.09	.17	•	•	.71	.03		.02		•	•	.14		.05	
EAST LAWAI 934	A	9.04	5.80	.41	.18	•	•	•	.13	T	.04	.14	.32	•	•	.70	.04		.10	.22	•	•	.81	.02		.05		•	•	.15	.01	.12	
ELELE 927	A	2.30	1.87	T		•	•	•	.06		.03		T	•	•	.10	T		.02	.01	•	•	.21	T								T	
HALAULA 1110	A	2.16	.31	.09	.04	•	•	•	.37	.05	.03	.10	.02	•	•	.30			.10	.12	•	•	.10	.18	.02			•	•	.30		.03	
HALENANAHO 1006	A	5.90	1.73	.63	.28	•	•	•	.32		.11	.09	.07	•	•	.66	.05		.15	.64	•	•	.68					•	•	.31		.18	
HUKIPO 945		.14	.12																														
ILIILIULA INTAKE 1050	A	15.62	5.64	.74	.06	•	•	•	.47	.06	.40	.48	.38	•	•	.96	.23		.21	.29	•	•	1.58	.40		.52	.02	•	•	1.25	.09	1.84	
INTAKE WAINIHA PC 1086	A	17.94	6.60	•	1.90	•	•	•	2.10	•	•	•	1.61	•	•	1.35	•	•	•	.70	•	•	3.07	•	•	.61	•	•	•	•	•	•	
KALIHIWAI RES 1131	A	8.60	1.24	.80	.22	•	•	•	.84	.08	.08	.32	.31	•	•	.72	.37	.01	.08	.25	•	•	.61	.03	.04	.18		•	•	1.33	.04	1.05	
KANALOHULUHULU 1075		2.25	.41	.03		.04	.15	.02	.20	.03	.02		.17	.17							.04	.45	.11	.25	.03				.03		.08	.02	
KANEHA RESERVOIR 1092	A	6.22	1.25	.80	.27	•	•	•	.55	.19	.09	.11	.27	•	•	.40	.04		.09	.30	•	•	.29	.30	.05	.06			•	.85	.10	.21	
KAPAA STABLES 1104	A	2.65	1.10	.10	.03	•	•	•	.19	.01	.03	.14		•	•	.32	.05		.05	.10	•	•	.10	.25					•	.14		.04	
KEALIA 1112	A	2.14	.61	.07	.03	•	•	•	.20	.03	.03	.10	.02	•	•	.29			.11	.10	•	•	.07	.29					•	.16		.03	
KEKAHA 944		.00																															
KILAUEA 1134	A	3.41	.65	.12	.02	•	•	•	.27	.11	.03	.11	.13	•	•	.37	.11	.02	.03	.11	•	•	.29	.02		.06		•	•	.82	.01	.13	
KILAUEA FIELD 17 1135	A	5.32	.74	.33	.08	•	•	•	.83	.07	.06	.14	.20	•	•	.55	.10	.01	.10	.23	•	•	.43		.13	.02	•	•	.93	.19	.18	
KILAUEA POINT 1133		1.41	.02			.02	.01	.01		.07	.10	.04	.26	.02	.02			.02	.15	.11	.03		.14		.04		.01	.17		.17			
KOLO 1033		.08	.08																														
KOLOA 936	A	7.70	3.30	.84	.25	•	•	•	.31	.10	.04	.38	.18	•	•	.68	.04	.01	.10	.38	•	•	.67	.01		.18		•	•	.08	.01	.14	
KOLOA MAUKA 994	A	8.30	3.38	.53	.11	•	•	•	.14		.19	.15	.15	•	•	.79	.10		.66	.31	•	•	.95	.04				•	•	.46		.34	
KOLOMOO RES 1137	A	4.66	.54	.32	.03	•	•	•	.90	.07	.07	.20	.20	•	•	.48	.07	.04	.10	.22	•	•	.45	.02		.09		•	•	.72	.06	.08	
KUKUIULA 935	A	3.63	1.71	.33	.05	•	•	•	.17	T	.03	.10	.10	•	•	.27	T		.04	.18	•	•	.42	.03		.57		•	•	.05		.08	
LIHUE VARIETY STA		4.25	1.08	.42	.15	.02	.22	.02	.04	.05	.08	.03	.10	.33	.02	.03	.13	.05	.19	.34	.12	•	.39	.10	.02		.01	•	•	.12	.08	.11	
LIHUE 1020	A	2.48	.40	.17	.05	•	•	•	.23	.02	.10	.07	.02	•	•	.46	.02	.03	.25	.18	•	•	.36	.03	.01					.06		.02	
LIHUE WB AP 1020.1	R	1.52	.02	.10	.01	.01	.20	.01	.02	.05	.02	.06	.04	.27	T	.03	T	.03	.23	.11	.15	.09	T	.02					.04		.01	
MAKAHUENA POINT 940.1		1.55	.49	.13			.08					.03	.01	.33	.01	.05			.07	.05	.02	.16	.03	.02							.07	
MAKAWELI 965	A	.09								.01			.02								.06												
MANA 1026		.07	.07																														
MOHIHI UPR CROSS 1083	A	3.43	.36	.18		.18	.18	.24	.18			.18	.18	.30						.12	.06	.73	.12	.06		.12			.18	.06			
MOLOAA 1145	A	1.77	.17	.06	.01	•	•	•	.37	.03	.02	.08	.07	•	•	.20	.02	.01	.08	.14	•	•	.12	.03				•	•	.35		.01	
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035		.27	.27																														
N WAILUA DITCH 1051	A	15.44	4.90	.90	.20	•	•	•	.80	.20	.46	.50	.36	•	•	1.20	.40		.30	.74	•	•	1.26	.46		.30		•	•	1.10	.20	1.16	
PH WAINIHA 1115		18.25	9.02	1.90	.30	.09	1.02	.60	.16	.18	.01	.02	.30	.40	.24	.16	.03		.32	.25	.26	.55	.64	.11	.02	.01		.08	.18	1.12		.28	
PRINCEVILLE RANCH 1117		5.27	1.51	.60	.08	.02	.20	.10	.09	.11	.04	.13	.04	.08	.14	.44	.15	.02	.11	.13	.16	.12	.15						.14	.58	.13		
PUEHU RIDGE 1040		.38	.28										.10																				
PUHI 1013	A	3.99	.82	.31	.21	•	•	•	.40	.02	.07	.08	.03	•	•	.56	.06	.02	.18	.46	•	•	.57	.04				•	•	.08		.08	
RESERVOIR 6 1004	A	5.72	1.71	.54	.25	•	•	•	.22		.14	.11	.07	•	•	.61	.06		.42	.31	•	•	.73					•	•	.32		.23	
WAHIAWA 930	A	4.06	3.20	.02		•	•	•	.06		.02	.02	.06	•	•	.39	T		.02	.02	•	•	.25	T									
WAHIAWA MOUNTAIN 990	A	9.25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	9.25	
WAIAHI LOWER 1054		9.99	3.48	.67	.21	.06	.21	.04	.03	.03	.14	.41	.43	.47	.02	.23	.06	.04	.12	.32	.30	.60	.04	.21	.01	.13	.02		.04	.79	.02	.86	
WAIAHI UPPER 1052		13.05	4.95	.75	.11	.02	.20	.17	.09	.04	.30	.28	.42	.53	.02	.30	.17	.01	.23	.35	.20	.77	.05	.37		.39			.29	.98	.01	1.05	
WAIAWA 943		.14	.03																												.11		
WAILUA KAI 1065	A	1.71	.17	.08	.06	•	•	•	.27		.03			•	•	.21	.03		.04	.22	•	•	.37	.16				•	•	.07			
WAIMEA 947		.03																				.03											
WEST LAWAI 931	A	6.78	4.84	.28	.09	•	•	•	.09		.03	.15	.19	•	•	.35	.01		.06	.17	•	•	.45	.01		.05		•	•	.02		.02	
• • •																																	
ISLAND OF OAHU																																	
AIEA EIELO 625 761	A	2.00	.47	.17			•	•	.03				.11	•	•	.31			.04		•	•	.87										
BERETANIA PUMPING STA		1.41	.34	.08									.08		.02	.16	T	T	.05	.04	.03	.39	.14	.05		.03							
CAMP 8 AOT	A	.52	•	•	.13	•	•	•	.10	•	•	•	•	•	•	.11	•	•	.01	•	•	•	.17										
CHURCH COLLEGE LAIE		2.06	.96	.06	.03	.14	.09			.02			.01		.03	.06				.17	.03		.03			.02		.01	.40				
COCONUT ISLAND 840.1		2.63	.81	.13	.04		.07	.02	.03	.01	.02		.02	•	.03	.31		.01	.11	.43	.18	.12		.01						.14	.04	.10	
EWA PLANTATION 741		.18	.14													.01						.01									.02		
HELEMANO INTAKE 881	A	11.65	1.20	•	•	•	1.80	•	•	.43	•	•	•	•	•	•	.79	•	•	•	•	•	•	4.90	•	•	•	2.41	•	•	.12	•	
HOKULOA 725.2	A	.72	•	•	•	•	•	•	•	•	•	•	•	•	•	.47	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.25	•	
HONOLULU OBSERV 702.2		.40	.20					.02					T			.12					T	.01							.01		.04		
HONOLULU WBFC 703	R	.10	T	T		T	T	T			T	T	T	T	T	.01	T	T	T	.01	.02	.06	T	T	T		T				T	T	
HONOLULU SUBSTA 704		.66	.01									.04			.08	.05			.04		.13	.15	.13						.03			
H S P A EXP STA 707		2.35	.52	.28									.08	.03	.01	.23		.02	.05	.11	.02	.54	.14	.01		.09				T	.25		
KAHANA 883	A	26.54	•	•	•	•	•	•	9.90	•	•	•	•	•	•	2.26	•	•	•	•	•	•	5.00	•	•	•	•	•	•	3.28	•	6.10	
KAHUKU 912	A	1.81	.80	.19		•	•	•	.11	.02		.02		•	•	.08	.02		.05	.04	•	•	.13				.17	•	•	.16	.02		
KAILUA FIRE STA 791.3		1.57	.37	.23		T	.06	.09	.02	T	T		.01	T	T	.21			.05	.14	.12	.01	.03	.01	T			.10		.04	.02	.06	
KALIHI RES SITE 777		6.88	.96	.02	.04	.06	.28	.32	.04		.08	.28	.04	.08	.28	.64			.54	.48	.20	.58	.02		.12		.04	.72	.06	.80	.20		
KANEOHE MAUKA 781		5.11	1.28	.23	.04		.05	.27	.05	.05	.07	.14	.10	.06	.09	.31			.15	.73	.29	.14	.09			.02	.02			.43	.08	.42		
KANEOHE RANCH 838	A	3.03	.45	.35	.03	•	•	•	.40		T	.17	T			.47		T	.12	.30	•	•	.13	.31	T	T		T	•	.27	.20	.30	
KAPALAMA 773	A	4.63	1.50	.52								.05	•	•	•	.43				.80	•	•	1.08			.15						.40	
KAWAIHAPAI 841	A	1.09	.30	.23						T			.02	.06	•	.12				.06	•	•	.25	T				•	•	.05			
KAWAI IKI INTAKE 880.2	A	11.50	•	•	.01	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.02	•	•	•	•	•	•	•	•	•	•	•	11.30	
KEMOO CAMP 8 855	A	1.39	.40	.24	.01	•	•	•	.02		.01		.05	•	•	.17				.02	•	•	.42	.03				•	•	.02			
KODLAU DAM 833		11.61	2.85	.68	.05	.02		.12	.06		.51	.08	.44	.09	.17	.55		.82	.23	.65	.62	3.13	.34	.02	.02	.06				.04	.09		
LUALUALEI 804	V	.56	.14											•	•	.01				.01	•	•	.01						.02				
LUALUALEI WTR TUNNEL	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
LUNALILO HOME 724.2		1.70	.15	.10			.10	•	.24				•	.10	•	.09		.02	•	.45		•	.45										
MAKAHA KAI 796	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		1.09	.13	.04			.10		.02		.04		.10		.10	.01		.04	.06	.06	.05	.26									.08		
MANOA 712		7.93	1.46	1.36		T	.02	.05			.02	.04	.13	.08	.07	.51		.04	.20	.55	.20	1.08	.54	.02		.50				.05	.04	.97	
MANOA TUNNEL 2 716		14.06	2.06	.46		.04	.32	.44	.04	.06	.12	.20	.20	.06	.46	.68	.06		1.26	.78	.38	1.92	.20	.02	.10			1.10	.26	2.36	.48	
MOANALUA 770		1.59	.24	.10									.07	.01	.02	.16		.01	.01	.03	.04	.52	.16	.04		.01						.12	
NUUANU RES 4 783		2.84	.44					.14	.02			.16	.02	.02	.02	.32			.10	.26	.20	.34						.20	.06	.52	.02	
NUUANU RESERVOIR 5 775	A	4.86	.45	.37	.02	•	•	•	.17		.07	.04	.15	•	•	.64		.03	.12	.38	•	•	1.32			.29			•	.09	.08	.64	
OPAEULA 870	A	3.69	.93	.63	.01	•	•	.21	.01	.02	.02	.05	.10	•	.06	.32	.06	.01	.06	.06	•	1.00	.08	.03		.01		•	.01			.01	
PALOLO VALLEY 718		13.08	1.30	.14		.12	.44	.50	.04	.06	.16	.30	.12	.14	.44	.84	.06		1.34	.60	.38	1.90	.14					.90	.14	2.96	.06	
PAUOA FLATS 784		14.82	1.40	.58	.02	.10	.20	.30	.08	.06	.40	.58	.02	.08	.60	.78	.08	.04	.88	1.12	.66	1.90	.26	.02	.24	.02		.04	1.10	.20	2.78	.28	
PORTLOCK ROAD 724.4		.91	.11	.18	.03	.06	.04	.02	.08	.05	.03	.01			.08	.04	.03	.02	.03		.01		.02	.02					.03		.02		
PRI WAHIAWA 820.2	A	1.70	.44	.02		•	•	•	.11		.09		.12	•	•	.28			.03	.23	•	•	.31	.07									
PUNALUU 884	A	4.12	1.25	.35	.04	•	•	•	.57	.03	.03	.02		•	•	.22		.02	.28	.19	•	•	.21			.02	.56	•	•	.30	.03		
PUNCHBOWL CRATER 709	A	2.01	.52	.13	.01			.01					.01	.02	.04	.22	.01	.03	.04	.05	.03	.59	.19	.05		.06							
ST STEPHENS SEM 788		3.76	.37	.29	.03	.03	.02	.29	.03	.04	.09	.05	.13	.02	.05	.23		T	.17	.47	.21	.23	.01	T				T	.06	.37	.26	.31	
TANTALUS 2 780.5		10.47	1.72	.71	.04		•	•	.11	.02	.11	.07	.34	.16	.07	.87	.06	.06	.15	.47	.22	1.88	.90	.17		.42			.03	.05	.06	1.78	
UNIV OF HAWAII 713	A	3.76	.68	.65	T	•	•	•	.02		T	T	.07	•	•	.42	T	.01	.12	.33	•	•	.92	.02		.01					.01	.37	
WAHIAWA DAM 863	A	6.18	.10		.05	.01	.05	•	•	.22	.72	.63	.10	•	•	.53	.04		.40	.02	.05	•	•	2.37	.71	.15	.03							
WAIAHOLE 837	A	12.22	3.54	.74	.10	•	•	•	.80			.24	.07	•	•	.78	.09	.07	.50	.61	•	•	.75			.03	.95	•	•	1.27	.10	1.58	
WAIALAE KAHALA 715		1.36	.25	.23	.01	.01	.02	T			T		.02	.03	T	.03	T	T	.05	.18	.03	.30	.07	.08	T						T	.05	
WAILUA 847	A	1.07	.19	.06	T			.06		T			.03	.02	.01	.14	T			.07	•	•	.31	T		T				.18			
WAIANAE 798	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
WAIANAE MAUKA 803	A	3.66	•	1.50	•	•	.02	•	•	•	.03	•	•	.20	•	•	•	.25	•	•	1.10	•	•	•	.45	•	•	.01	•	•	•	.10	
WAIAWA 836	A	4.88	2.93	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.95		
WAIKANE 885	A	16.35	•	•	•	•	•	•	8.00	•	•	•	•	•	•	.87	•	•	•	•	•	•	2.30	•	•	•	•	•	•	1.98	•	3.20	
WAIKIKI 717.2		.50	.15	.06	T		.01					T		.02	T				T	.04	.01	.13	.05	T	•		T	.01			.02	
WAILUPE RESV. 723.2	A	2.89	•	.56	•	•	•	•	•	•	•	.38	•	•	•	•	•	•	.43	•	•	•	•	•	•	.98	•	•	•	•	•	.54	
WAIMANALO 794	A	1.78	.22	.12		•	•	•	.19		.03	.02	.10	•	•	.10			.06	.22	•	•	.27	.03						.19	.04	.19	
WAIMEA 892	A	3.16	.95	.47	.02	•	•	•	.05		.04	.02	.06	•	•	.37	.09		.05	.04	•	•	.80					•	•	.20			
WAIPAHU 750	A	.33	.10	T		•	•	•	.01		.01		.04	•	•	.07			T	.02	•	•	.08										
WILHELMINA RISE 721		4.08	.86	.20		.02	.16	.08		.04	.04	.10	.10	.02	.12	.26	.04	.02	.40	.14	.12	.54	.10	.02	.08	.06					.48	.08	

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII APRIL 1969

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF MOLOKAI																																	
KALAUPAPA 563	A	3.48	.87	.52	*	.21	*	*	.30	*	*	*	.10	.06	*	.08	*	*	*	.04	.12	*	*	*	*	*	*	.46	.16	*	*	.56		
KAUNAKAKAI 536	A	.00																															
KONELELE PENS 551	A	.00																															
KUALAPUU 534	A	2.12	.07	.20					.17	.01			.10	*	*	.42		.05	.15	.03	*	*	.45	.28	.12			*	.07				
MAPULEHU 542		2.68	.24	*	*	*	.09	*	*	*	.16	.15	.20	.07	.12	.03	.03	.11	.08	.05	.33	*	.10	*	*	*	*	.31	.12	.09	.32	.08		
MAUNALOA 511	A	.96				.02							.09	*	*	.17			.04			.37		.02				*	.25				
MOLOKAI AP 524		1.12	.04	.08			.08	.19	.03					.17	.05			.04	.08	.03		.20	.06	.05	.02				T	T			
PUUOMOKU RANCH 542.1		2.02	.12			.06	.25	.15		.04	.15	.03	.34		.09	.02		.07	.01		.06	.22	.07	.04			.10			.20		
WAIKOLU 540	A	12.62							8.38								2.20						1.23							.81			
* * * ISLAND OF LANAI																																	
KANEPUU 690	A	.29				*	*	*	*	*	*	.18															*	*	*	*	*	.11		
KAUMALAPAU HARBOR 658	A	.00																															
LANAI CITY 672	A	.93		.62		*	*	*	.18	T				*	*	T											*	*		.07		.06	
LANAIHALE 684	A	1.55	*	*	*	*	*	*	*	*	*	*	*	1.35	*	*	*	*	*	*	.14	*	*	*	*	*	*	.06	*	*	*	*	
MANANA 694	A	.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.09	
MALAUEA 676	A	.00																															
WAIAKEAKUA 685	A	1.27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.69	
* * * ISLAND OF MAUI																																	
ASWAHI-252	A	.16											.05												.11								
HALEAKALA 8 E S 434	A	18.70	3.75	5.67	.12	.20	.04	.49	.57	.62	.03		.10	1.95	.58			.24	.24	.05	.19	1.31	.50	1.05	.63						.37		
HALEAKALA RANCH 432	A	8.66	1.99	3.64	*	*	*	.26	.28	*	*	*	*	.98	.15	*	*	*	*	*	*	.40	*	.59	*	*	*	*	*	.37	*	*	
HALEAKALA RS 338		6.66	1.22	2.80	T			.01	.01				.08	.81	.10				.01	T	.07	.21	.01	.07	T					.10	.01	1.15	
HALEAKALA SUMMIT 338.4		1.79	.40	1.34	T				T				T											T							.05	
HALIIMAILE 423	A	6.44	.30	2.12	.04	*	.11	*	.43	.21	.04		.04	*	*	.81		.10	.15		*	*	1.00	.24	.85								
HAMAKUAPOKO 485		5.54	.93	1.04		.07	.28	.14	.24	.09	.02	.05	.09	.59	.15	.23		.15	.17	.05	.03	.43	.17	.18	.25	T	.05		.01	.01	.06	.06	
HANA 354		7.88	3.90	.54	.02	.09	.13	*	1.10	.06	.06	.06	.08	.18	*	.29	.01	.08	.05	.11	.03	*	.58	.09					*	.36	.06		
HANA AIRPORT 355		7.05	2.52	.79	.02	.03	.16	.91	.30	.08	.03	.04	.09	.10	.15	.21	.02	.09	.04	.05	T	.42	T	.02			.17	.03	.46	.12	.20	T	
HANAHULI 281		9.93	1.95	1.75	.05	T	.03	.50	.03	.13	.01	.15	.04	.20	.17	.23	.18	.09	.16	.12			.94	.04	.11	2.03	.15	.05	.28	.07	.34	.13	
HOLUA CABIN 259.5	A	8.24	*	*	4.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	*	*	*	*	*	3.34	*	
HONOKOHAU 480	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
HONOKOHUA 493	A	2.55	.10	.25	.07	*	*	*	.30	.08	.02	.09	.13	*	*	.36	.01	.02	.05	.06	*	*	.48	.04	.03					.11	.12	.23	
HONOMANU GULCH 341	A	45.00	*	*	*	*	*	*	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.00	
KAANAPALI AIRPORT		-	.13	.12	T	.02	T	.01	.06	.01		T	.01	.04	T	T				-		.13	T	.12	.03								
KAHOMA INTAKE 374	A	12.67	*	*	*	*	*	*	7.09	*	*	*	*	*	*	.34	*	*	*	*	*	*	4.66	*	*	*	.58	*	*	*	*	*	
KAHULUI WB AP 398	R	1.79	.62	.02	T	.02	.06	.03	.02	.01		T	.13	.04	T		T	T	T	T	.11	.05	.16	.50								.02	
KAILILI 436	A	54.58	*	*	36.94	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.64	
KAILUA 446		17.39	4.26	3.10	.10	.07	.94	1.32	.65	.58	.10	.13	.26	.58	.45	.32	.12	.29	.37	.42	.07	.68	.41	.06	.07		.03	.01	.29	.41	.87	.43	
KAUAULA INTAKE 375	A	3.48	*	*	*	*	*	*	2.08	*	*	*	*	*	*	.67	*	*	*	*	*	*	.57	*	*	*	*	*	*	.16	*	*	
KEAHUA 410		2.36	.11	.90	T	T	.02		.15	.09	T		.01	.10	.14	T			T		.10	.09	.04	.40	.21								
KEANAE 346	A	42.40	*	*	*	*	*	19.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23.00	
KEAWAKAPU BEACH 260.2		.10		.10																													
KIHEI 311		1.16	.04	1.08					.01						.03																		
KIPAHULU 258		6.75	.87	1.63	.06				.12	.06			.15	.23		.91	.04	.20	.22	.16	.12	.72	.06	.04			.17		.30	.11	.38	.20	
KULA HEIGHTS 323.2		1.07	.11	.96															T														
KULA SANATORIUM 267		.66		.60												.02														.04			
LAHAINA 361		.10	.02	.08																													
LAUNIUPOKO INTAKE 376	A	8.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.60	
LAUNIUPOKO VILLAGE 372	A	.14	.03	.11																													
MUPI UPPER 442	A	26.00	*	*	*	*	*	*	*	*	*	*	16.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.00	
MAHINAHINA 466	A	5.68	1.00	1.25	.10			.53	.22	.07	.03	.05	.04		.40	.25			.04			.83	.15	.15	.47							.10	
NAKALELE -ELO 60-497	A	2.88	*	*	*	*	*	*	1.18	*	*	*	*	*	*	.77	*	*	*	*	*	*	.44	*	*	*	*	*	*	.41	*	*	.08	
OLINDA 332	A	8.41	1.75	4.30	.03	*	*	*	.28	.01	.01		.01	*	*	*	*	.01	.01	T	*	*	.17	.08	.06	.02		*	*	.09	.01	1.57	
OLOWALU 296		.24		.24																													
OLOWALU GULCH 377	A	6.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.50	
PAAKEA 350		32.39	4.64	4.92	.83	.08	.94	3.01	2.37	.92	.81	.19	.68	.69	1.38	.96	.30	.65	1.08	.57	.12	1.27	.36	.28	.32		.14		.38	1.45	1.74	1.31	
PAIA 401		3.16	.28	.65	.05	.14	.11	.09	.09	.07	T		.05	.21	.08	.06		.05	.06	.01	.07	.32	.10	.43	.23						.01		
PANIOLIHULU 259.2	A	8.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.62	
PAUWELA 490	A	7.69	1.17	1.44	.06	*	*	*	.96	.18	.08	.09	.12	*	*	1.27		.41	.22	.15	*	*	.48	.30				.16	*	*	.36	.18	.06	
POHAKEA BRIDGE 307.2	A	1.11	.09	.70	*	*	.04	.01	.15	.04	*	*	*	.06	*	*	*	*	*	*	*	*	*	.02	*	*	*	*	*	*	*	*	
POLIPOLI SPRINGS 267.2	A	1.77	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.77	*	
PUOMOKAMOA 2 343	A	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	41.60	
PUU KUKUI MAKAI 472	A	11.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.20	
PUUNENE 396		1.95	.10	.87	.01				.11	.09				.10							.01	.01		.49	.16								
SPRECKELSVILLE 400.2		2.40	.15	.55	T	.06	.09	.05	.10	.10	T		.01	.13	.05	T			.03		.10	.14	.07	.45	.32								
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	26.25	*	*	*	*	*	*	2.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.85	
UKUMEHAME 301	A	.14		.14																													
ULUPALAKUA RANCH 250		.28		.20																										.08			
WAIHIKUL 364	A	.18	.05	.12																					.01								
WAIEHU CAMP 484	A	3.12	.96	.30	*	*	.16	.24	.10	.04	.03	*	.18	.27	.17	*	*	*	.07	.10	.03	.05	.01	.07	.16	*	*	*	.16	.02	*	*	
WAIHEE VALLEY 482	A	3.48	.90	.10	*	*	.05	.45	.16	.03	.04	*	.15	.36	.20	.02	*	*	.10	.15	.02	.23	.14	.10	.06	*	*	*	.17	.03	.02	*	
WAIKAMOI 449	A	68.36	*	42.10	*	*	*	*	2.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.60	
WAIKAMOI DAM 336	A	60.37	2.38	16.21	.76	*	*	*	3.49	1.34	.21	1.35	.54	*	*	8.70	*	.61	1.17	.54	*	*	4.96	1.57	1.15	.02	.57	*	*	.50	.72	3.58	
WAIKAPU 390	A	2.16	.30	.70	*	*	.10	.07	.30	.06	*	*	*	.19	.02	*	*	*	.02	*	*	*	*	.30	.08	*	*	*	*	*	.02	*	
WAILUKU 392		2.65	.42	.36	.02	.07	.04	.24	.16	.02	.02		.08	.30	.05	.02		.05	.04	.02	*	.11	.02	.37	.16	.02			.04	.02			
WAIOHAI RANCH 256	A	.00																															
* * * ISLAND OF HAWAII																																	
AMUA UMI 75	A	1.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.10	
AWINI 182.1	A	28.46	1.93	4.33	.87	*	*	*	3.88	.61	.41	.46	1.05	*	*	4.57	.42	.59	1.48	.40	*	*	*	2.71	.88	.79	*	*	*	*	1.06	1.39	.63	
EAST HONOKANE 183.2	A	73.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23.64	
HAINA 214		14.62	.41	3.37	.48	.20	.86	.24	.98	.30	.13	.09	.22	1.24	1.88	.01	.07	.56	.43	.08	.30	.43	.35	.36	.15		.06		.46	.04	.65	.27	
HAKALAU 142		21.08	5.25	1.00	.26	.43	.20	.51	1.90	.52	.07	.11	.18	.96	.22	.42	.20	.42	.70	.24	.30	.55	.33	.33	.15		.27	.03	1.12	3.49	.79	.13	
HALEMAUMAU 52	A	2.98	*	*	*	*	.24	*	*	*	*	*	*	*	*	*	*	*	*	1.09	*	*	*	*	*	*	*	*	*	*	*	1.65	
HALEPIULA 117	A	4.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.58	
HALEPOHAKU 111	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HAWAII VOLCNS NP HQ 54		11.10	.62	1.00	.19	.06	.03	.08	.07	.05	.07	.04	.07	1.84	1.30	.62	.10	.29	.36	.28	.51	.43	.49	.46	.33	.06	.11	T	.10	.44	.46	.64	
HAWI 168	A	5.91	.22	.87	.03	*	*	*	.64	.40	.05	.03	.06	*	*	1.17	.03	.05	.20	.03	*	*	1.06	.23	.30			*	*	.40	.07	.07	
HILO WB AIRPORT 87	R	14.57	.90	.04	.48	.39	.09	.08	.68	.20	.04	.09	2.41	.58	.54	.22	.20	.69	.40	.18	.25	.66	.28	.34	.12	.41		.06	2.02	1.70	.47	.05	
HOLUALOA 70	A	6.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.05	2.74	1.65	.79	
HOLUALOA BEACH 68	A	2.59			1.37			.21			.28														.17		.56				6.40	*	
HONAUNAU 27		5.32	1.96	.02	.03	.15	.10	.02	.10	.02	.04	.04	.02	.02	.08		.05	.10	.14	.43	.10	.20	.50	.02	.08	.20	.10	.09	.20	.20	.12	.19	
HONOHINA 137		22.49	5.48	1.20	.32	.72	.39	.32	2.45	.53	.24	.08	.19	1.25	.52	.64	.18	.66	.37	.22	.38	.45	.58	.40	.07	.01	.15		.93	2.59	.78	.39	
HONOKANE 181.1	A	29.26	1.03	4.09	1.11	*	*	*	4.53	.98	.42	.22	.61	*	*	5.30	1.27	.85	*	*	*	*	5.19	.86	1.09			*	*	.68	.82	.21	
HONOMU MAUKA 138		35.15	3.50	2.47	2.36	.48	.90	.45	3.11	.56	.20	.06	.94	1.78	1.41	1.00	.74	.67	1.41	.71	.50	.85	1.75	.64	.75	.24	.44	*	2.05	2.74	1.65	.79	
HONUAULA 71	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20	
HUALALAI 72	A	.84	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.84	*	
HULEHUE 92.1	A	3.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.50	*	*	*	*	*	*	*	*	*	*	*	2.00	*	*	*	
KAALA 1K1 12	A	3.59	.17				.04									.90	.01										.10	.44	.15	.37	.30	1.10	
KAAWALOA 29	A	4.59	2.80	.07	.18	*	*	*	T	.13	T			*	*	.19	.01		.20	.18	*	*	.52		.15	T		*	*	.12		.08	
KAINALII 73.2		3.47	1.09	.01	.24	.04		.12		.12		T		.14			.05		.16	.12	.43	T	.06		.37	.03		.28	.10	T	.04	.07	
KALAHANA NO 1 67.8		3.36	*	T	*	*	*	*	*	.10	*	*	*	*	*	*	.90	*	*	*	*	*	1.11	*	.13	*	*	*	*	*	.95	.17	
KAMADA NO 2 5	A	.88	*	*	*	*	.33	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.55	*	
KAMUELA 192.2		9.36	.12	.52	.28	.12	.12	.02	.22	.08	.34	.05	.03	1.06	.62	.14	.06	.05	.24	.26	.06	.02	.11	.18	.08		.27		.05	.03	.15	.08	
KAMUELA AIRPORT 191		-	.11	.14	.02	.03	.08	T	.10	-	.14	.02	.70	.25	.13	.04	.01	.02	.10	.09	T	T	.03	.16	.01	T	.20		T	T	T	.02	
KAPAPALA RANCH 36	A	2.74	*	*	*	*	*	.05	.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.28	*	*	.35	1.10	1.20	
KAPOHO LANDING 93.5	A	11.94	*	*	*	*	*	*	7.83	*	*	*	*	*	*	*	.99	*	*	2.37	*	*	*	*	*	*	.75	*	*	*	*	*	

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII
APRIL 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		35.69	3.15	3.90	1.28	.33	.12	.21	1.03	.25	.15	.05	.75	5.18	1.60	.90	1.61	.71	1.65	.77	.58	.69	.80	.88	.68	.11	.66	.01	.54	1.76	2.59	2.75	
KAWAINUI LOWEP 193	A	35.50	*	*	*	6.90	*	*	*	*	*	*	10.60	*	*	*	*	*	*	14.00	*	*	*	*	*	*	4.00	*	*	*	*	*	
KEAAU 92		21.66	3.62	2.10	.65	.62	.09	.38	.74	.55	.12	.05	.30	2.71	.79	.43	.18	.47	.83	.22	.25	.46	.27	.23	.14	.11	1.60	.06	.43	1.38	1.36	.52	
KEALAKEKUA 26.2		4.82	2.64	.01	.17	.01		T		.07				.21			.02	.01	.21	.30	.60	.01	.03		.30	.01		.07	.12	T	T	.03	
KEHENA 181.2	A	13.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.60	
KIOLAKAA A C F 6	A	2.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.30	*	
KIPA 89.2	A	37.83	3.30	3.78	1.11	.42	.56	.50	1.42	.24	.13	.35	.85	3.40	1.70	1.79	.95	1.08	2.29	.93	.48	1.27	1.19	1.16	.98	.18	.56		.87	1.60	2.61	2.13	
KOHALA 179.1	A	8.05	.69	1.00	.08	*	*	*	1.24	.24	.14	.04	.05	*	*	1.35	.24	.05	.25	.04	*	*	1.02	.35	.24			*	*	.66	.22	.15	
KOHALA MAULILI 176	A	9.49	.30	1.82	.19	*	*	*	1.26	.44	.21	.07	.17	*	*	1.62	.14	.13	.52	.06	*	*	.93	.27	.42		.01	*	*	.48	.31	.14	
KOHALA MISSION 175.1		9.34	.64	1.24	.11	.05	.78	.20	.46	.51	.09	.03	.10	.46	.73	.56	.18	.11	.45	.05	.02	.20	.50	.43	.35	T			.49	.21	.24	.15	
KOLAWE LOWER 196	A	18.08	*	*	*	3.10	*	*	*	*	*	*	6.00	*	*	*	*	*	*	8.00	*	*	*	*	*	*	.98	*	*	*	*	*	
KONA AIRPORT 68.3		1.85	.80	.02	.05	.05		.46		.30				.02														T			.15		
KONA VILLAGE 93.8		.08			.02																.06											
KUKAIAU 222		23.40	.85	2.84	1.67	.27	1.55	.35	2.92	.92	.10	.43	.29	2.51	2.18	.12	.18	.25	.81	.57	.41	1.13	.41	.28	.85				.05	.01	1.00	.45	
KUKUIHAELE HIC 199		14.64	.41	2.15	.82	.15	1.08	.18	.81	.44	.25	.10	.28	1.24	1.51	.02	.06	.39	.48	.24	.48	.59	.34	.65	.30				.56	.07	.72	.32	
KUKUIHAELE MILL 206	A	9.56	.53	1.40	.18	*	*	*	1.55	.26	.15	.13	.17	*	*	1.32	.05	.10	.45	.15	*	*	1.04	.23	.24			*	*	.72	.78	.14	
KULANI CAMP 79		15.85	1.05	1.85	.45	.20	.16	.25	.49	.17	.01	.05	.05	3.50	1.45	.45	.11	.15	.37	.43	.48	.32	.46	.48	.44	.03	.09		.06	1.06	.52	.72	
KULANI MAUKA 76	A	4.50	.57	.37				.26					.89	.73	.12	.06			.20	.05	.19	.17	.09	.14					.05	*	*	.61	
KULANI SCHOOL SITE 78	A	14.03	*	*	*	*	4.23	*	*	*	*	*	*	4.70	*	*	*	*	*	*	3.30	*	*	*	*	*	*	1.80	*	*	*	*	
LANIHAU 68.2		2.90	.10	.06	.14	.25											.07	.11		.15	.13	.26	.07		1.11	.11		.04	.08		.22		
MANUKA 2	A	1.83	.22	T	T	*	*	*	.98			.02		*	*	.32		T	T	.04	*	*	.09			.09		*	*	.03	T	.04	
MAUNA KEA BEACH 98		-	.02																												-	
MAUNA LOA SLOPE 085		.97	.59	T	.05	.01							.22	.02																	.08		
MIDDLE HOLUALOA 68.1	A	2.01	*	*	.97	*	*	.14	*	.19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	*	*	.41	*	*	*	*	
MIDDLE PEN 147.1	A	.00																															
MOAULA 18	A	1.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.25	
MOUNTAIN VIEW 91		32.43	2.61	3.37	.80	.73	.10	.46	.88	.45	.19	.23	.42	5.74	1.63	.97	.47	.64	1.05	.55	.54	.94	.55	.61	.64	.09	.33	.05	.36	1.17	3.83	2.03	
NAALEHU 14	A	1.03	.13	T		*	*	*	T					*	*	.01	T										T	*	.25	.20	.09	.35	
NAPOOPOO 28	A	3.34	*	*	*	*	*	*	2.28	*	*	*	*	*	*	.14	*	*	*	*	*	*	.59	*	*	*	*	*	*	.33	*	*	
NAULU FOREST 38.6		2.90			*	*	*	*	*	.02	*	*	*	*	*	*	*	.80	*	*	*	*	.61	*	.18	*	*	*	*	*	1.06	.23	
NIULII 179	A	10.51	1.02	1.21	.12	*	*	*	1.34	.44	.15	.07	.12	*	*	1.80	.58	.10	.53	.10	*	*	1.04	.18	.28			*	*	.76	.40	.27	
OOKALA 223		19.12	1.62	2.50	.98	.35	.58	.28	2.00	.94	.18	.05	.13	1.51	1.59	.25	.43	.29	.85	.40	.23	1.16	.55	.37	.36				.20	.23	.77	.32	
OPIHIHALE 2 24.1		2.83	.02	T	.15	.01			.01	.14	T	.01	.60			.01	.02	.22	.15	.34	.04	.28	.01	.01	.01			.16	T	.13	.33	.18	
ORCHID LAND EST 91.5	A	20.53	*	*	*	*	*	*	8.92	*	*	*	*	*	*	*	3.27	*	*	5.07	*	*	*	*	*	*	3.27	*	*	*	*	*	
PAAUHAU 217		13.11	.61	3.82	.30	.19	.73	.27	1.12	.33	.11	.03	.23	1.18	1.27	.02	.03	.41	.20	.11	.28	.53	.15	.26	.14		.04		.17	.01	.38	.19	
PAAULLO 221		20.86	.52	2.68	1.63	.21	1.60	.26	2.87	.67	.07	.39	.72	2.35	1.55	.05	.07	.19	.79	.46	.33	.88	.33	.23	.79				.01	T	.83	.38	
PAHALA 21		1.32	.18	.01																							.05	.33	.07	.05	.23	.40	
PAHOA 65		17.11	3.25	1.12	.21	.54	.08	.33	.64	.62	.27	.07	.24	1.93	.56	.30	.18	.40	.39	.46	.35	.63	.37	.14	.05	.28	.62	.02	.34	1.20	1.12	.40	
PAKAO 37	A	5.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.10	
PAPAIKOU 144.1		17.94	2.33	1.16	.21	.40	.68	.06	1.18	.59	.15		.37	1.51	.07	.28	.79	.37	.72	.11	.23	.69	.75	.44	.37	.06	.40	T	.75	1.80	1.13	.34	
PAPAIKOU MAUKA 140.1		36.08	3.92	2.83	1.28	.54	.54	.44	2.35	.36	.23	.35	.58	2.59	1.69	1.54	1.54	.63	2.12	.43	.43	1.30	1.30	.85	.39	.15	.57	T	.68	2.31	2.27	1.87	
PEPEEKEO MAKAI 144		19.35	3.65	.85	.18	.50	.01	.03	1.02	.32	.02	.07	.29	.53	.08	.48	.12	.47	.21	.03	.43	.55	.43	.45	.07	.10	.40		2.10	4.78	1.10	.08	
PIIHONUA 89	A	87.60	*	46.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	41.60	
POHAKULOA 107	A	.30	.15	*	*	.15																											
PUAKO 95.1	A	.06	.06																												*		
PUU KIHE 120	A	4.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.65	
PUU LAAU 102.1	A	.28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.28	
PUU LEHUA 73	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20	
PUU MALI 113	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00	
PUUNKUMAU 167	A	9.15	.16	1.37	.28	*	*	*	1.32	.55	.11	.06	.17	*	*	1.47	.03	.21	.34	.11	*	*	1.17	.55	.54		.01	*	*	.17	.46	.07	
PUU OO 82		11.21	.75	1.40	.35	.13	.12	.19	.16	.14	.04	.02	.10	2.40	1.03	.26		.18	.54	.17	.31	.45	.36	.27	.26	.03	.09	.03	.02	.56	.35	.50	
PUU WAAWAA 94.1	A	.17	.08	T	T																						.03			.06			
SADDLE ROAD 1 84	A	33.28	*	*	*	*	*	*	*	*	*	*	13.83	*	*	*	*	*	*	12.65	*	*	*	*	*	*	6.80	*	*	*	*	*	
SOUTH POINT CORRAL 3	A	.32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.32	
UMIKOA 118		19.29	.32	3.05	.73	*	*	*	*	*	*	*	5.78	4.70	2.36				.07	.18	.15	*	.46	.57	.11		.04	*	*	.03	.65	.09	
UPOLU POINT USCG 159.2		3.55	.05	.71	.02	.02	.02			.43	.05	.01		.20	.11	.18		.06	.14		.05	.45		.46	.28				.06	.22	.02	.01	
WAIAKEA SCO 88.2		38.25	2.87	4.28	1.46	.38	.20	.18	1.32	.24	.11	.10	.56	7.06	1.42	1.05	1.02	.86	1.41	.48	.73	.74	.72	1.02	1.08	.16	.66	.11	.76	1.91	2.25	3.11	

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME 2 AM	8 AM	2 PM	8 PM	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	3	2.1	7.1	17	NE	15+	93	89	77	87	0	7	13	6	1	2	29	25	9.2
HONOLULU, OAHU, WBFC	5	14.0	15.1	30	E	22+	78	72	56	74	19	4	0	0	0	0	23	69	6.4
KAHULUI, MAUI, WB AIRPORT	5	14.7	15.1	30	NE	17	83	76	63	78	7	9	3	2	0	0	21	66	6.5
LIHUE, KAUAI, WB AIRPORT	5	13.3	14.1	26	NE	01	84	78	70	79	3	15	6	0	0	0	24	45	7.6

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
• • •																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	60	61	62	58	62	59	58	64	62	61	65	65	70	71	74	72	69	63	66	64	62	65	70	68	69	72	70	69	73	69		65.8
	MIN	53	53	48	50	51	48	49	49	52	53	53	55	53	53	53	54	51	54	53	54	53	52	50	46	50	45	54	54	50	52		51.5
KILAUEA POINT 1133	MAX	74	73	72	74	75	74	74	75	75	75	76	74	77	77	78	76	75	78	79	78	76	77	76	79	84	82	82	80	77	78		76.7
	MIN	62	68	59	65	66	64	66	66	66	69	66	68	71	67	67	68	61	62	62	66	70	64	68	62	70	69	69	66	67	67		66.0
LIHUE WB AP 1020.1	MAX	74	71	75	74	73	73	71	74	75	74	76	76	77	77	78	69	77	77	77	76	78	79	80	79	82	82	81	81	81	83		76.9
	MIN	65	64	66	64	63	62	62	64	64	66	68	66	69	69	69	67	67	67	67	67	68	69	70	67	65	65	70	73	73	71		67.0
MAKAHUENA POINT 940.1	MAX	74	77	76	78	77	77	75	75	77	78	77	79	78	80	82	81	80	81	80	80	80	80	80	81	85	85	80	81	84	84		79.4
	MIN	70	65	65	69	64	62	55	55	65	65	64	64	67	70	72	69	67	69	70	67	70	69	64	68	63	68	70	66	70	70		66.4
MANA 1026	MAX	82	83	82	83	81	81	80	79	81	80	82	87	85	86	86	83	87	86	85	85	85	84	84	85	82	82	84	82	84	84		83.3
	MIN	61	60	60	61	60	69	58	58	61	64	62	63	63	62	62	63	62	66	64	62	62	62	62	58	64	64	63	63	65	65		62.3
NIU RIDGE 1035	MAX	75	78	75	77	76	77	79	78	77	77	78	78	79	79	81	80	80	79	78	78	78	78	78	79	80	79	78	79	79	80		78.2
	MIN	57	58	56	58	55	58	60	60	55	62	63	60	61	60	61	60	60	59	58	59	58	59	60	55	57	58	58	60	59	60		58.8
WAIAHI LOWER 1054	MAX	72	72	72	74	72	72	72	73	73	73	78	75	77	77	78	77	76	75	75	78	75	75	78	78	79	78	80	78	78	78		75.6
	MIN	64	60	58	58	64	58	58	61	60	62	62	64	65	67	65	64	65	63	64	64	62	63	64	62	63	62	62	60	62	62		62.3
• • •																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	77	75	77	78	79	77	78	78	80	78	81	81	82	83	83	81	81	81	80	80	80	79	82	82	85	83	82	84	83	82		80.4
	MIN	66	66	65	64	60	63	62	62	62	66	67	68	67	68	65	68	70	68	67	66	67	67	63	62	66	66	66	65	65	66		65.4
HONOLULU WBFC 703	MAX	78	76	78	79	81	79	80	80	81	78	78	82	83	85	84	84	84	84	82	82	81	81	83	83	83	83	86	85	85	84		81.7
	MIN	67	66	66	66	63	65	64	66	65	68	68	69	69	70	70	70	69	68	68	66	68	68	67	64	70	68	68	71	71	70		67.6
HONOLULU SUBSTA 704	MAX	74	73	74	76	75	74	74	74	77	76	78	76	78	79	79	78	78	79	77	77	76	76	78	82	81	79	80	80	79	78		77.2
	MIN	67	67	68	67	67	67	66	66	66	70	69	68	68	68	69	69	67	67	66	66	67	69	68	66	70	71	72	72	70	70		68.1
KAHUKU 912	MAX	77	75	74				76	77	76	78	75			79	80	80	79	79			79	78	78	78	81			82	80	80		78.1
	MIN	66	65	68				65	67	66	68	69			69	70	68	68	69			67	70	70	70	63			69	69	71		68.0
KANEOHE MAUKA 781	MAX	75	73	72	74	75	76	73	76	75	77	74	77	78	72	78	77	79	80	78	77	76	75	75	78	79	81	78	75	79	77		76.3
	MIN	68	69	65	66	63	64	64	65	62	66	68	67	67	68	68	64	67	66	64	68	69	66	67	65	67	67	66	68	69	68		66.4
KUALUALEI 804	MAX	80	79	77	79	80	80	79	81	80	81	78	82	82	83	85	84	83	83	81	81	82	80	80	83	84	86	84	84	84	86		81.7
	MIN	65	69	68	68	68	68	66	68	66	69	69	72	72	69	71	72	72	68	70	69	69	69	68	65	67	68	72	67	71	70		68.8
MAKAPUU POINT 724	MAX	73	72	71	74	75	80	81	71	81	80	72	74	80	74	75	76	81	76	75	82	74	74	74	76	85	81	76	83	76	81		76.8
	MIN	68	67	63	64	63	65	66	62	65	66	65	68	64	65	62	58	65	60	62	70	60	57	68	63	72	70	68	71	63	67		64.9
OPAEULA 870	MAX	71	70	70	70	71	76	75	73	73	73	73	74	74	76	77	79	73	77	71	74	73	71	69	77	81	76	82	82	82	78		74.7
	MIN	63	62	61	62	56	58	59	61	60	60	62	65	64	65	65	65	64	64	63	62	62	64	60	60	60	59	61	65	66	64		62.1
PRI WAHIAWA 820.2	MAX	78	75	74	76	76	77	76	77	79	80	76	76	79	81	81	83	81	81	81	82	77	75	76	81	83	83	82	84	84	83		79.2
	MIN	63	63	63	60	57	60	59	61	60	61	64	63	64	65	66	67	67	65	62	61	62	63	58	58	61	60	60	62	64	64		62.1
WAIALUA 847	MAX	76	74	74	76	76	76	75	76	76	80	77	78	78	80	82	82	80	82	78	78	78	77	75	82	82	82	81	81	83	82		78.6
	MIN	65	63	64	65	62	57	61	60	59	60	65	66	67	68	63	65	69	67	68	66	66	65	57	59	62	62	61	61	63	61		63.3
WAIKIKI 717.2	MAX	81	77	76	78	71	80	79	79	78	80	79	81	81	81	84	83	82	82	82	86	80	80	81	82	85	87	86	83	85	83		81.1
	MIN	68	66	69	67	64	67	67	68	67	67	70	70	69	72	72	71	69	68	68	67	68	69	69	62	67	67	69	72	72	70		68.4
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ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	77	72	71	75	73	76	74	75	73	77	75	74	74	78	80	79	77	79	78	78	77	75	74	79	83	84	77	81	83	78		76.9
	MIN	68	66	64	67	65	66	64	67	68	67	68	66	69	71	68	70	69	69	68	68	68	67	63	62	68	69	70	70	72	69		67.5
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ISLAND OF LANAI																																	
LANAI CITY 672	MAX	74	71	72				71	68	69	73	72			74	73	75	75	75	74	71	75	74	74	76	77	79	72	77	77	75		73.7
	MIN	62	60	62				58	60	62	60	61			64	65	64	64	62	59	63	62	63	61	59	65	64	65	59	64	63		62.0
• • •																																	
ISLAND OF MAUI																																	
HALEAKALA PS 338	MAX	53	52	60	62	61	58	57	59	69	65	60	55	55	64	65	67	68	67	63	59	57	61	58	60	62	62	64	64	64	59		61.0
	MIN	45	45	43	40	35	37	36	40	47	42	45	46	44	49	52	50	47	45	42	44	40	41	38	39	44	44	46	41	42	40		43.0
HALEAKALA SUMMIT 338.4	MAX	44	45	49	54	53	54	47	56	57	56	56			54	55	56	56	57			54	55	55	56	59			58	57	54		54.0
	MIN	34	36	32	35	31	34	32	32	35	33	32			35		34	35	38			36	35	40	38	41			38	38	37		35.3
HANA AIRPORT 355	MAX	76	74	77	78	75	75	73	75	75	78	78	76	79	78	82	81	80	80	80	78	78	80	80	80	80	81	80	80	80	80		78.2
	MIN	65	65	68	65	67	63	65	65	64	67	67	68	69	68	68	68	69	68	66	66	65	69	64	69	67	67	69	70	70	69		67.0
KAANAPALI AIRPORT	MAX	78	76	76	77	77	79	76	77	77	80	78	76	81	83	82	82	82		82	80	81	80	77	83	84	85	81	84	85	83		80.1
	MIN	67	66	66	65	61	65	64	62	62	68	69	68	69	70	66	71	70		69	67	67	67	63	62	68	67	68	68	68	68		66.5
KAHULUI WB AP 398	MAX	73	76	79	79	78	76	78	78	81	78	78	81	83	84	84	82	84	82	82	82	83	80	84	86	85	82	85	83	85	83		81.1
	MIN	65	66	67	65	64	64	63	65	59	62	68	68	68	64	60	69	69	70	68	68	67	68	65	60	65	63	70	67	70	67		65.8
KAILUA 446	MAX	69	70	68	70	69	71	67	69	69	74	74	70	73	75	76	78	73	77	75	73	74	74	70	76	76	79	81	79	75	74		73.3
	MIN	62	64	61	62	60	60	60	60	60	60	60	65	64	65	67	65	65	64	66	63	63	64	63	64	62	63	62	63	65	65		62.9
KEAWAKAPU BEACH 260.2	MAX	84	80	80	80	80	82	80	80	83	86	84	86	88	88	89	86	87	88	89	88	87	88	88	83	86	86	82	86	85	85		84.8
	MIN	65	63	61	59	56	63	64	58	59	62	63	63	62	63	60	62	61	62	61	60	59	60	58	62	65	63	64	65	64	63		61.7
KULA SANATORIUM 267	MAX	70	68	66	68	67	69	65	69	66	69	68	71	70	71	72	70	72	72	72	72	73	70	71	72	74	75	75	71	70	72		70.3
	MIN	56	55	54	51	52	53	50	51	52	53	55	57	54	55	52	53	55	54	55	55	52	53	52	53	54	55	56	57	58	56		53.9
LAHAINA 361	MAX	81	78	80	81	81	82	80	82	82	81	80	83	84	85	85	85	85	84	84	84	85	84	83	83	83	87	84	85	84	83		82.9
	MIN	67	65	64	61	60	62	59	62	63	66	66	66	65	68	65	66	66	67	66	67	65	67	63	64	67	67	67	69	68	65		65.1

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WAILUKU 392	MAX	76	72	76	78	78	78	75	79	76	80	78	80	78	80	81	81	81	81		80	79	80	78	81	85	83	81	81	79	80		79.1
	MIN	66	66	68	66	65	65	66	65	65	67	67	67	68	70	69	70	70	70		67	66	67	66	64	67	69	70	69	71	70		67.4
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	75	72	71	74	75	75	75	73	72	74	78	75	73	76	77	79	76	79	78	79	75	77	71	74	76	80	76	76	77	79		75.6
	MIN	63	62	60	59	59	60	60	59	58	60	62	63	62	64	62	63	62	63	60	64	61	61	64	68	61	60	64	64	65	60		61.8
HAWAII VOLCNS NP HO 54	MAX	60	61	58	60	58	63	56	61	59	65	62	65	60	68	61	67	64	66	62	59	61	64	59	64	68	69	67	64	67	67		62.8
	MIN	54	54	53	49	50	51	51	49	49	47	54	54	54	55	52	53	53	52	52	53	49	52	49	50	51	53	57	56	55	52		52.1
HILO WB AIRPORT 87	MAX	77	79	73	78	78	78	76	75	79	80	79	81	81	79	81	80	81	80	80	79	80	79	81	78	82	81	76	81	81	81		79.1
	MIN	67	69	67	65	64	63	66	65	62	62	68	69	70	68	65	68	69	66	66	67	66	68	64	66	65	66	68	68	68	67		66.4
KAINALIU 73.2	MAX	76	72	76	75	76	76	80	77	72	71	77	78	80	78	79	75	79	77	78	74	75	76	76	74	77	80	75	80	79	76		76.5
	MIN	62	61	64	63	60	59	58	60	59	60	63	62	60	61	62	63	65	64	64	61	62	60	62	61	61	63	63	64	62	63		61.7
KAMUELA 192.2	MAX	70	68	70	68	69	67	66	66	65	69	70	70	65	70	68	70	70	68	70	70	69	70	70	70	75	78	70	70	73	72		69.5
	MIN	57	54	55	54	54	55	54	54	53	53	55	56	55	56	57	56	56	55	54	55	56	55	55	52	50	53	58	58	58	57		55.0
KAMUELA AIRPORT 191	MAX	70	68	66	66	68	69	67		62	66	69	68	68	70	68	68	67	70	71		67	69	67	70	74	78	70	70	74	72		69.0
	MIN		50	58	57	52	52	55		58	58	59				50	51	52	52	58		55	55	53	51	53	48	56	61	63	53		54.6
KEAAU 92	MAX	74	75	77	79	79	79	79	79	72	79	79	79	79	81	79	83	78	81	81	81	81	80	78	81	75	82	82	82	72	81		78.9
	MIN	64	65	64	60	60	60	60	62	60	61	61	61	61	66	64	66	66	63	63	63	63	64	62	61	62	63	63	63	66	65		62.7
KEALAKEKUA 26.2	MAX	76	72	77	77	76	76	79	76	73	76	77	78	79	78	79	74	79	76		78	75	78	75	76	76	79	75	79	80	76		76.7
	MIN	62	62	64	62	61	60	59	61	60	62	64	63	61	62	64	63	65	65		62	62	61	63	62	62	63	64	65	64	64		62.5
KOHALA MISSION 175.1	MAX	73	71	73	73	71	75	73	73	72	76	77	75	73	76	77	76	75	71	76	75	74	75	71	77	77	80	79	77	76	77		74.8
	MIN	64	64	63	63	62	63	62	62	62	64	65	66	65	66	66	66	65	66	64	64	64	64	65	62	63	65	62	67	67	66		64.2
KONA AIRPORT 68.3	MAX	80	78	80	80	79	81	83	80	76	80	80	82	84	83	82	80	82	80	83	81	79	82	79	78	80	82	81	81	81	82		80.6
	MIN	63	67	66	68	66	64	64	66	62	62	62	61	67	67	67	66	66	66	62	68	65	66	64	64	64	64	68	68	68	68		65.3
KULANI CAMP 79	MAX	61	60	58		56	58	58	56	58	60	60	60		64	60	64	62	62		58	58	60	56	58	64	65		66	62	62		60.2
	MIN	42	42	38		42	45	45	41	38	44	49	50		50	44	49	50	48		48	48	48	42	43	46	49		53	49	48		45.8
MAUNA KEA BEACH 98	MAX	82	83	85	86	85	86	89	88	86	83	83	90	91	87	84	85	87	85	88	86	89	86	88	83	84	84	82	84	86			85.7
	MIN	70	73	71	68	66	67	66	69	69	70	71	74	77	72	69	72	71	72	69	71	70	70	70	69	69	71	72	71	72			70.4
MAUNA LOA SLOPE 08S	MAX	45	45	45	48	51	47	50	57	60	54	48	46	51	53	57	54	56	56	54	54	54	56	53	54	58	56	52	52	48	48		52.1
	MIN	30	34	35	35	35	30	29	36	41	36	33	34	34	35	36	36	31	35	37	33	33	32	33	39	41	41	37	37	30	34		34.7
MOUNTAIN VIEW 91	MAX	68	68	69	66	67	70	70	67	68	73	70	69	70	78	68	76	71	73	73	72	72	71	68	74	69	78	71	70	72	73		70.8
	MIN	60	61	60	57	57	58	58	58	57	55	55	60	62	64	60	60	61	60	59	60	58	58	57	57	56	56	64	62	61	59		59.0
NAALEHU 14	MAX	78	74	78	78	78	79	79	77	75	78	78	78	80	80	76	80	79	79	79	78	78	78	78	78	78	78	79	79	78	79		78.1
	MIN	65	68	67	67	67	61	61	59	63	64	68	68	68	68	67	67	68	66	66	64	64	66	63	66	66	66	65	65	68	65		65.5
OOKALA 223	MAX	75	72	72	71	75	77	77	70	70	76	77	78	73	78	75	78	76	78	79	77	74	77	74	78	76	80	80	79	75	78		75.8
	MIN	64	64	63	61	62	63	61	60	61	64	67	65	65	67	66	66	65	66	63	63	64	63	63	65	56	62	65	65	67	65		63.7
OPIHIHALE 2 24.1	MAX	77	78	75	78	78	80	72	76	74	76	78	78	80	79	78	80	76	79	73	76	75	73	77	77	80	77	78	80	79	73		77.0
	MIN	60	60	64	60	58	56	57	56	56	60	60	59	62	62	61	62	63	61	59	58	60	60	59	59	61	63	64	63	63	59		60.2
PAHALA 21	MAX	78	74	78	76	79	77	79	78	76	76	76	82	82	84	75	80	81	81	80	78	80	81	79	77	77	81	78	76	79	76		78.5
	MIN	62	63	65	61	57	58	58	58	58	60	61	65	64	64	61	61	64	60	61	63	59	59	60	61	60	60	65	66	63	61		61.3
UPOLU POINT USCG 159.2	MAX	74	73	78	77	77	77	78	78	74	77	75	79	77	79	80	80	80	81	80	78	79	78	76	79	80	82	82	82	82	77		78.3
	MIN	65	66	64	65	64	67	64	64	64	65	66	67	67	69	67	68	65	70	65	67	69	65	63	67	66	61	69	68	61	67		65.8

EVAPORATION AND WIND

Station		Day Of Month																													Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.13	.17	.17	.28	.22	.22	.30	.28	.27	.25	.22	.19	.29	.27	.30	.34	.22	.21	.36	.36	.31	.31	.33	.37	.45	.25	.14	.32	.39	.32		8.24
	WIND	269	246	201	213	177	131	203	230	180	144	191	225	218	176	158	194	223	210	245	234	217	231	200	143	82	69	115	155	159	199		5638
	MAX	73	78	72	78	76	80	78	77	79	82	79	82	84	86	88	88	84	84	84	85	82	84	84	88	92	87	88	90	91	87		83.0
	MIN	65	64	62	63	62	60	60	61	61	64	66	66	65	66	65	66	67	66	66	66	65	64	64	64	65	65	66	68	67	67		64.5
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.04	.23	.19	.21	.20	.30	.19	.30	.30	.17	.13	.30	.30	.08	.32	.30	.35	.33	.35	.30	.29	.29	.32	.27	.30	.28	.16	.16	.28	.26		7.50
	WIND	53	60	42	45	34	36	51	55	44	27	32	61	61	36	41	52	65	64	73	62	61	66	54	34	32	23	23	28	31	47		1393
	MAX	78	83	81	82	83	87	89	88	84	89	78	85	88	90	94	92	91	91	89	90	88	85	84	90	95	89	85	88	93	91		87.3
	MIN	66	65	64	63	62	63	60	62	63	67	65	65	66	68	67	68	67	66	65	65	65	64	63	64	67	67	67	67	68	67		65.2

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF KAUAI												
ALEXANDER R [illegible] 32.98	[illegible]	[illegible]	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUGAR CO.
ANAHOLA 1111	A 0?45	0?	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION
[illegible] 285	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
[illegible] 234	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
[illegible] 19 [illegible]	0465	02	KAWAIHAU	2	22 06	159 22	50				C	LIHUE PLANTATION
ELEELE 92?	A [illegible]	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HA[illegible]	A 1?93	01	KAWAIHAU	1	22 07	159 19	251		7A			LIHUE PLTN CO LTD
[illegible] NANAH[illegible]	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL [illegible]	117?	[illegible]	KAWAIHAU	1	22 05	159 28	1218					LIHUE PLTN CO LTD
[illegible] 947	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
IILIWAI INTAKE 1 5	A 2?22	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
[illegible] 1086	A 2227	01	HANALEI	1	22 09	159 34	690		WI		S	MC BRYDE SUG CO LTD
KALIHIWAI R 1131	A 2974	01	HANALEI	1	22 11	159 26	400		7A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1 75	3?99	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KAPAHI RESERVOIR 1092	A 3134	01	KAWAIHAU	1	22 08	159 22	800		7A			LIHUE PLANTATION
KAPAA TABLE 11	A 3?59	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 111	A 3?82	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO [illegible] 37.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO.
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4762	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 2?	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY [illegible] TA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	U S WEATHER BUREAU
[illegible] POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A ?64	03	WAIMEA		21 5?	159 38	140		7A			OLOKELE SUGAR CO
MANA 1020	[illegible]	03	WAIMEA	3	[illegible]	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
[illegible]	[illegible]		[illegible]	2	21 5?	159 28	300				C	GROVE FARM COMPANY
[illegible]	[illegible]		WAIMEA		22 07	159 36	3500		MID		J	U S GEO SURVEY
[illegible]	[illegible]		KAWAIHAU		22 11	159 [illegible]	33		7A			LIHUE PLANTATION CO.
[illegible]	[illegible]		WAIMEA	2	22 ?4	159 39	5148		MID		J	U. S. GEO. SURVEY
[illegible]	[illegible]		WAIMEA		22 07	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
[illegible]	[illegible]		LIHUE	2	22 ?4	159 28	1110		7A			LIHUE PLTN CO LTD
[illegible]	?93		LIHUE	2	22 ?4	159 26	650				J	LIHUE PLTN CO LTD
[illegible]	[illegible]		HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
[illegible]	[illegible]		HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
[illegible]	82?		WAIMEA	3	22 ?1	159 42	1660		7A			KEKAHA SUGAR CO LTD
[illegible]	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
[illegible]	A 8573		LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
[illegible]	86??		LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
[illegible]	8941		KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
[illegible]	A [illegible]	02	KOLOA	2	21 58	159 31	2100		MO			MC BRYDE SUG CO LTD
[illegible]	?58	02	LIHUE	2	22 ?1	159 ?7	565	6A	6A			LIHUE PLTN CO LTD
[illegible]	[illegible]		LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
[illegible]	[illegible]		WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
[illegible]	A 9467		LIHUE	2	22 ?2	159 21	50		7A			LIHUE PLANTATION
WAI[illegible]	[illegible]		WAIMEA	3	21 57	159 41	20		8A			WAIMEA SUG MILL CO
[illegible]	[illegible]	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
[illegible]	[illegible]		KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
[illegible] 761	[illegible]	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
[illegible] SPRING [illegible]	[illegible]	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
[illegible]	[illegible]	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
[illegible] LAIE	[illegible]	01	KOOLAUPOKO	1	21 39	157 56	40		5P			BIOLOGICAL SCIENCE DEPT
[illegible] 840.1	[illegible]	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
[illegible]	[illegible]		HONOLULU	2	21 21	157 50	565				C	J. L. BANNING
[illegible] 741	[illegible]		EWA	3	21 21	158 ?2	50	9A	7A			EWA PLANTATION CO
[illegible]	[illegible]		HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
[illegible] 881	[illegible]		WAIALUA		21 33	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
[illegible]	[illegible]		EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
[illegible]	[illegible]		EWA		21 19	158 00	5		9A	9A		U S COAST + GEODETIC
[illegible]	[illegible]	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
[illegible]	[illegible]		HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
[illegible]	[illegible]		HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
[illegible]	[illegible]		HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
[illegible]	[illegible]		KOOLAULOA	1	21 31	157 54	800		WI			WAIAHOLE WTR CO LTD
[illegible]	A [illegible]	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAI[illegible]	[illegible]	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
[illegible] 777	[illegible]	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
[illegible]	[illegible]		KOOLAUPOKO	1	21 17	157 41	1380				C	HAWAII NATIONAL GUARD
[illegible]	[illegible]	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KAN[illegible]	[illegible]	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
[illegible]	[illegible]		KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
[illegible]	[illegible]	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
[illegible]	[illegible]		WAIALUA	5	21 ?5	158 11	20		7A			WAIALUA SUGAR CO. INC.
[illegible]	[illegible]		WAIALUA	5	21 34	157 59	118		WI			WAIALUA SUGAR CO. INC.
[illegible]	[illegible]		KOOLAUPOKO	1	21 ?4	158 ?0	135					HAWAII NATIONAL GUARD
[illegible]	[illegible]		WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
[illegible]	[illegible]		WAHIAWA	5	21 30	157 58	1160		8A			C + F OFFICER HEOG
[illegible]	[illegible]	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
[illegible]	[illegible]	04	WAIANAE	4	21 29	158 08	1500		WI			U S NAVY
[illegible]	[illegible]		KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LUM
[illegible]	[illegible]		HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
[illegible]	A [illegible]		WAIANAE	4	21 ?8	158 13	25		7A			CAPITAL INVEST CO
[illegible] B	[illegible]		OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
[illegible] 24	[illegible]		HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
[illegible]	[illegible]		HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
[illegible]	[illegible]		HONOLULU	2	21 2?	157 48	650		MID			BOARD OF WTR SUPPLY
[illegible]	[illegible]		KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
[illegible]	[illegible]		HONOLULU	2	21 ?1	157 54	20		9A			JOHN A ROXBURGH
[illegible]	[illegible]		WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM.
[illegible] 8	[illegible]		HONOLULU	2	21 21	157 49	1068		MID			BOARD OF WTR SUPPLY
[illegible] RESERVOIR	[illegible]		HONOLULU	2	21 ?1	157 50	41		VAR			BOARD OF WTR SUPPLY
[illegible] 8	[illegible]		WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
[illegible] VALLEY	[illegible]		HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
[illegible]	[illegible]		HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
[illegible]	[illegible]		EWA	3	21 25	157 58	240				C	JAMES MOMENO
[illegible]	[illegible]		HONOLULU	2	21 17	157 4?	6		7A			MR. ALFRED FRANCO, JR.
[illegible]	[illegible]		WAHIAWA	5	21 28	158 01	7	8A	8A		C	PINEAPPLE RESEARCH INST
[illegible] 835	[illegible]		KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
[illegible]	A [illegible]		HONOLULU	2	21 19	157 51	160		8A			NAT MEM CEMETERY
[illegible]	[illegible]		WAIALUA	1	21 39	158 ?2	[illegible]				C	JACK N. WHEELER
[illegible] 88	[illegible]		KOOLAULOA	1	21 [illegible]	157 47	[illegible]		7A			REV R CULLINAN
[illegible] 8	[illegible]		HONOLULU		21 [illegible]	157 49	2700				C	BOARD OF WATER SUPPLY
[illegible]	[illegible]		HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
[illegible]	[illegible]		HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
[illegible] 96	[illegible]		WAHIAWA	5	21 [illegible]	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WA[illegible]	[illegible]		KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
[illegible]	[illegible]		HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
[illegible]	A [illegible]		WAIALUA	5	21 [illegible]	158 [illegible]	[illegible]	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE	A [illegible]		WAIANAE	4	21 ?7	158 11	10		8A			CAPITAL INVEST CO
WAIANAE [illegible]	[illegible]		WAIANAE	4	21 29	158 09	1575		WI			CAPITAL INVEST CO
[illegible]	[illegible]		EWA		21 28	157 56	800		MO			WAIAHOLE WTR CO LTD
[illegible]	[illegible]		[illegible]	1	21 ?0	157 53	760		WI			WAIAHOLE WTR CO LTD
[illegible]	[illegible]	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAI[illegible]	[illegible]		HONOLULU		21 18	157 45	170		WI			BOARD OF WTR SUPPLY
WAI[illegible]	[illegible]		HONOLULU		21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
[illegible]	[illegible]		KOOLAUPOKO	1	21 21	157 44	60		8A			ST DIV WTR + LAND DEV
[illegible]	A [illegible]		WAIALUA	5	21 38	158 04	35		7A			WAIALUA SUGAR CO. INC.
[illegible]	[illegible]		EWA		21 23	158 01	5?		8A			OAHU SUGAR CO
[illegible]	[illegible]		HONOLULU		21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA [illegible]	A ?85	01	MOLOKAI	1	21 11	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMA[illegible]	[illegible]	01	MOLOKAI	1	21 04	156 52	60				C	W. J. CARSTEN
KAUNAKAKAI [illegible]	[illegible]	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI [illegible]	[illegible]	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSPITA
[illegible]	A [illegible]	01	MOLOKAI	1	21 12	157 1?	560		WI			MOLOKAI RANCH, LTD.
[illegible]	A [illegible]	01	MOLOKAI	1	21 09	157 02	878		7A			DEL MONTE CORPORATION
MA[illegible]	6138	01	MOLOKAI	1	21 ?4	156 48	20		8A			H S P A
MAUNA [illegible]	A [illegible]	01	MOLOKAI	1	21 08	157 13	1070		9A			LIBBY MCNEILL + LIBBY
MOLOKAI AP [illegible]	[illegible]	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU [illegible]	[illegible]	01	MOLOKAI		21 ?9	156 44	700		6A			PUUOHOKU RANCH
ISLAND OF MOLOKAI												
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		TW		C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690	A 3133	01	LAHAINA	1	20 52	157 00	1650		WI		C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI		C	STATE DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 53	156 55	1430		MO			DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI		C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040		WM			DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	U OF MICH MT HKALA OBSY
HALEHAKU 492.2	1016	02	MAKAWAO	2	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM + SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHOLI 281	1148	01	HANA	1	20 41	156 01	325		7A			KUAEI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100					STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM + SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.?	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CURELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM + SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 47?	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800		MO			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7564	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM + SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		WI			KAUPO RANCH CO.
PAUWELA 490	A 7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A 806	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.1	A 8670	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500		MO			PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM + SUG CO
PUU PAHI 352	8553	01	HANA	1	20 46	156 03	2160				J	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 4[illegible]	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM + SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8753	04	LAHAINA	4	20 48	156 3?	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A			ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEMU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		WM			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 39	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	946?	01	HANA	1	20 48	156 09	2630				J	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 004?	05	N KONA	5	19 38	155 47	5220		MO			GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		WI			KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240		MO			KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPIULA 117	A 106?	01	HAMAKUA	1	19 56	155 24	5770		MO			KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		MO			STATE DIV. OF PARKS
HAWAII VOLCN' NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A			HAWAII NAT PARK
HAWI 168	A 1337	01	N KOHALA	1	20 14	155 50	600		7A			KOHALA SUGAR CO
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	J	U S WEATHER BUREAU
HOLUALOA 73	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HOA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEU SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1966	02	S HILO	2	19 51	155 09	1100		7A			PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700					RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1530	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894		HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	0?	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 336?	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3?1?	02	HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 9?	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2	3977	04	N KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEANAKOLU CAMP 124.2	4048	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV. OF FORESTRY
KEHENA 181.2	A 424?	01	N KOHALA	1	20 07	155 45	3840		WI			KOHALA DITCH CO LTD
KIOLAKAA A + F 6	A 46??	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4642		HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		7A			KOHALA SUGA9 CO
KOHALA MA LILI 176	A 467?	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
[illegible] LOWER 196	A 468?	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 52	155 55	15		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 07	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE MILL 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI		C	U S WEATHER BUREAU

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
ULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI		C	ST DEPT OF SOCIAL SER
ALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L + N RES
ANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		BA			KONA EXPERIMENT STATION
AVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV. OF PARKS
ANJKA 2	A 6134	04	KAU	3	19 07	155 50	1760		BA			STATE DIVISION OF PARKS
AUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	1031	BA	BA			MAUNA KEA BEACH HOTEL
AUNA LOA SLOPE OBS 39	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
IDOLE MULUALUA 68.1	A 6208	04	N KONA	4	19 37	155 58	475		BA			KONA EXPERIMENT STA
IDOLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
AJLA 18	A 6407	03	KAU	3	19 11	155 30	600		MO			HAWAIIAN RANCH CO
OUNTAIN VIEW 91	6552	01	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
AALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
APOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
AULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
ULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
AKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
PIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
RCMID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
AUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	915		7A			PAAUHAU SUGAR CO
AUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
AHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
AHUA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
AKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			HAWAIIAN RANCH CO, INC.
APAINUU 144.1	7711	01	N HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
APAIKOU MAUKA 142.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
EPEEKEU MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEU SUGAR CO
IMUNUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO		C	STATE DIV OF FORESTRY
HAKALOA 147	A 8063	02	HAMAKUA	2	19 45	155 22	6511		VAR		C	STATE DIVISION OF PARKS
JAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			EWEIN H. RAPP
JU KIME 126	A 8393	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIAU RANCH CO

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 56	155 36	7440		MO			TAIC DIV OF FOR + GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUOKUMAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO, LTD
PUU OO 82		8550	02	S HILO	2	19 44	155 23	6340		EA		W. H. SHIPMAN, LTD
PUU WAAAAA 74.1	A 8555	04	N KONA	5	19 47	155 51	2570		7A		C	BILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 11	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CURRAL 3	A 8675	03	KAU	3	18 57	155 41	400		WI			HUTCHINSON SUGAR CO
S POINT TRACKING STA		8679	03	KAU	3	18 57	155 41	305			C	FEDERAL AVIATION AGY
UMIAOA 118		8780	01	HAMAKUA	1	19 59	155 23	3420		7A		KUKAIAU RANCH CO
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1	20 15	155 53	61	BA	BA		U S COAST + GEO SURV
WAIAKEA SCD 88.2		9025	02	S HILO	2	19 41	155 08	1050		7A		SHINICHI KANESHIRO
WAIKANONOULA 178.6		9350	01	N KOHALA	1	20 08	155 47	3830			C	KAHUA RANCH

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in F., precipitation and evaporation in inches, and wind movement in miles. In 'Supplemental Data' table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960

STATION NAMES Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry

\+ And also on an earlier date or dates

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data

• Amount included in following measurement, time distribution unknown

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month

J "Supplemental Data" table

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record

R Amounts from recording gage

T Trace, an amount too small to measure.

V Includes total for previous month

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day

OC Gage readings at periods varying from a few weeks to several months

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

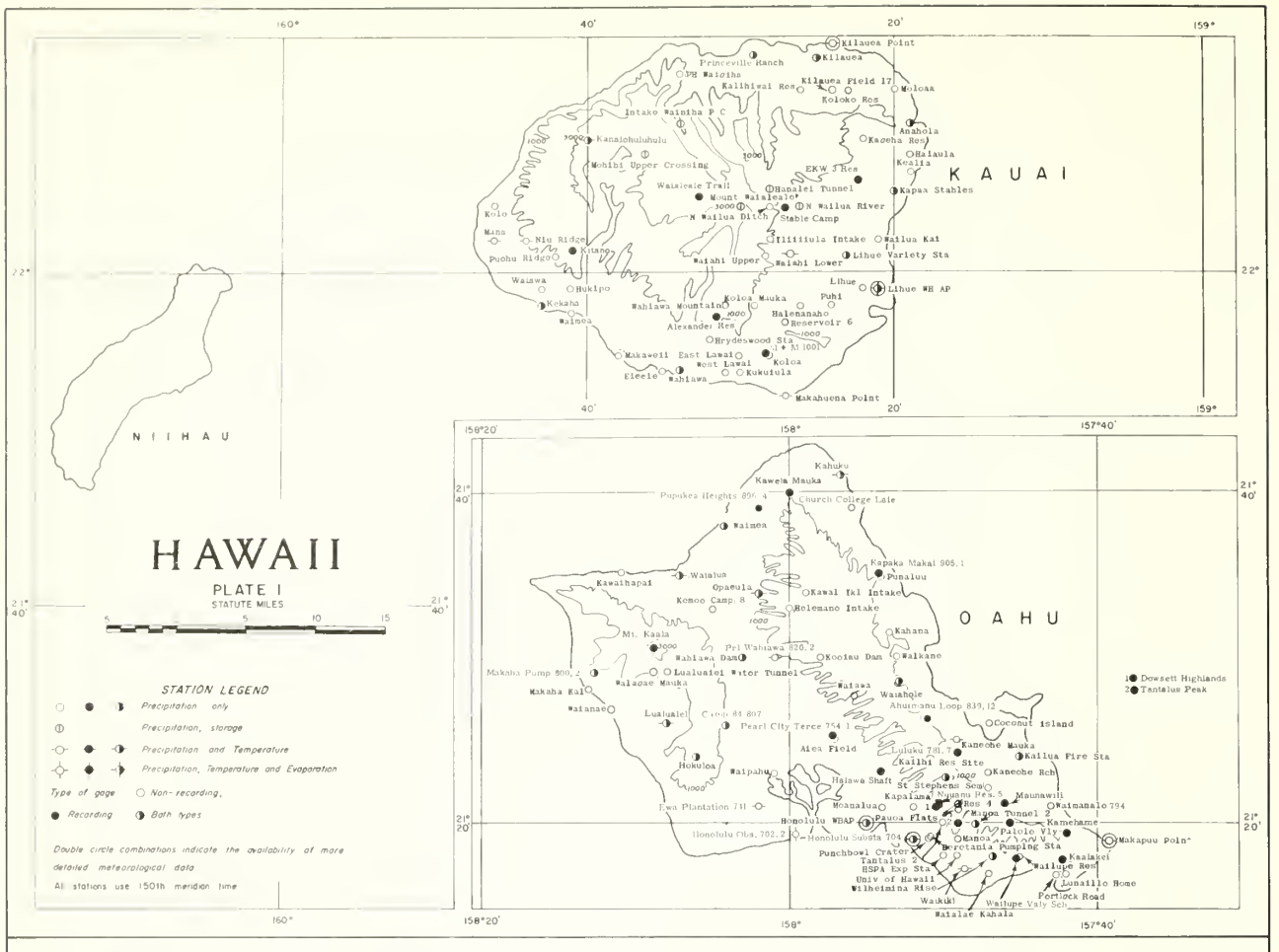
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

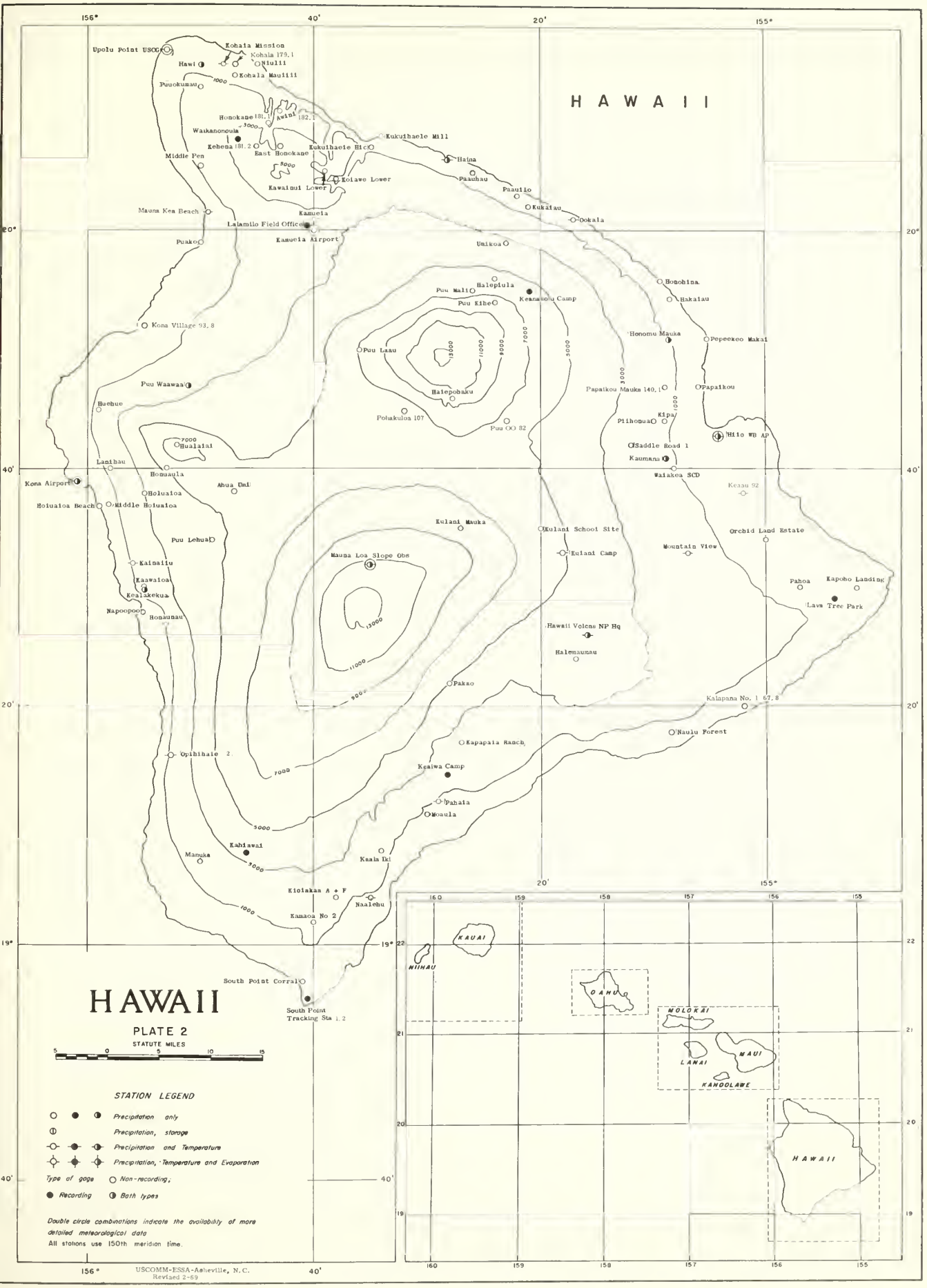
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above

Subscription Price 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA ASHEVILLE-7/31/69-890


HAWAII
PLATE I
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
Kilauea Point
Kilauea
Princeville Ranch
Kilauea Field 17
Koloko Res
Moloaa
Anahola
Kaoeha Res
Halaula
Kealia
Kapaa Stables
Lihue
Lihue WB AP
Lihue Variety Sta
Hanalei Tunnel
EKW 3 Res
Waialeale Trail
Mount Waialeale
N Wailua River
N Wailua Ditch
Stable Camp
Iliiliula Intake
Wailua Kai
Waiahi Upper
Waiahi Lower
Kanaiohuluhulu
Mohihi Upper Crossing
Niu Ridge
Kitano
Puohu Ridge
Kolo
Mana
Waiawa
Hukipo
Kekaha
Waimea
Kokee Mauka
Puhi
Halenanahe Reservoir 6
Alexander Res
Hrydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Pupukea Heights 894.4
Church College Lale
Waimea
Kapaka Makai 905.1
Punaluu
Kawaihapai
Waialua
Opaeula
Kawai Ikl Intake
Kemoo Camp 8
Kelemano Intake
Kahana
Mt. Kaala
Pel Wahiawa 826.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 800.2
Lualualei Water Tunnel
Waianae Mauka
Makaha Kai
Waianae
Lualualei
Waiawa
Waiahole
Ahuimanu Loop 839.12
Coconut Island
Pearl City Terce 754.1
Aiea Field
Luluku 781.7
Kaneohe Mauka
Kailua Fire Sta
Kailhi Res Site
Hokuloa
Waipahu
Halawa Shaft
Kaneohe Rch
St Stephens Seqlo
Kapalama Nuuanu Res. 5
Maunawili
Ewa Plantation 711
Moanalua
Res 1
Waimanalo 794
Honolulu WBAP
Pauoa Flats
Pauoa Tunnel 2
Kamehame
Honolulu Oba. 702.2
Honolulu Substa 704
Manoa
Paiole Vly
Makapuu Point
Punchbowl Crater
Tantalus 2
BSPA Exp Sta
Univ of Hawaii
Wilhelmina Rise
Beretania Pumping Sta
Kaalakei
Wailupe Road
Lunaillo Home
Portlock Road
Waikiki
Wailupe Vally Sch
Waialae Kahala
1 Dowsett Highlands
2 Tantalus Peak
MOLOKAI
Keonelele Poma
Kalaupapa
Molokai AP
Kualapuu
Maunaloa St
Waikolu
Kaunakakai Mauka
Kaunakakai
Kamalo Mauka
Mapulehu
Puuohoku Ranch
LANAI
Kaiopae 1600
Mahana
Lanai City
Lanaihale
Waiakoakua
Kaumalapau Harbor
Nakaleie Fld 60
Honolua Fld 49
Honokohua
Field 46
Mokulpea 475
Honokohau
Kahakuloa Mauka 482.3
Mahinahina
Haolaau
Waiheo Valley
Koanapoli Airport
Puu Kukui Makai
Kahoma Intake
Waiehu Camp
Wahikuli
Kukui
Iao Needle
Wailuku
Kahului WB AP
Hamakuapoko
Sprockelsville
Kailua
Lahaina
Kauaula Intake
Olowalu
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Waikapu
Pohakea Bridge
Ukumehame
Kihei
Twiu Gates
Pala
Pauwela
Halehaku 492.2
Lupi Upper
Waikamoi
Keahua
Haliimaile
Haleakala H E S
Kailiili
Haleakala Ranch
Puohokamoa 2
Keanae
Paakea
Waikamoi Dam
Ukulele
Olinda
Kula Heights
Wailua iki
Hana AP
Puu Pakl
Honomanu Gulch
Haleakala RS
Holua Cabin 259.5
Hana
Haleakala Summit
Kula Sanatorium
Koawakapu Beach
Poiipoli Spr
Kaupo Ranch House
Ulupalakua Ranch
Kipahulu
Waiopai Rch
Auwahi
KAHOOLAWE
MAUI
USCOMM-ESSA-Asheville, N.C.
Revised 2-69



USCOMM-ESSA-Asheville, N.C.
Revised 2-69

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
MAY 1969
Volume 65 No. 5

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CLIMATOLOGICAL DATA

Station		Temperature										Precipitation							
									No. of Days							Snow, Sleet		No. of Days	
									Max.		Min.								
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																							
ISLAND OF KAUAI																							
ANAHOLA 1111	A													3.56	.61			.0	0				
KANALOHULUMULU 1075		69.5	51.4	60.5		74	28	43	6	0	0	0	0	3.92		.95	9	.0	0		8	3	0
KAPAA STABLES 1104	A													4.54				.0	0				
KILAUEA FIELD 17 1135	A													8.15	.56			.0	0				
KILAUEA POINT 1133		79.5	68.2	73.9		86	29	62	18	0	0	0	0	6.06		2.07	10	.0	0		9	4	1
KOLOA 936	A													4.93	.58			.0	0				
LIHUE WB AP 1020.1	R	81.2	69.5	75.4	.9	85	30	64	8	0	0	0	0	2.80	.22	.81	10	.0	0		6	2	0
MANA 1026		85.4	64.5	75.0	.3	89	31	60	2	0	0	0	0	.64	- .26	.33	13	.0	0		2	0	0
N WAILUA DITCH 1051	A													12.78				.0					
PH WAINIHA 1115														16.03	6.87	3.70	11	.0	0		14	6	5
PUEHU RIDGE 1040														1.91		1.05	11	.0	0		4	1	1
WAHIAWA 930	A													1.53	.03			.0	0				
WAIAHI LOWER 1054		77.2	62.0	69.6		80	31	58	20	0	0	0	0	9.34		3.26	11	.0	0		16	5	2
WAIMEA 947														.57	- .28	.52	11	.0	0		2	1	0
ISLAND				70.9										5.48				.0					
* * *																							
ISLAND OF OAHU																							
HONOLULU OBSERV 702.2														.51		.25	2	.0	0		2	0	0
HONOLULU WBFO 703	R	84.4	69.0	76.7	.8	88	27	64	8	0	0	0	0	.84	- .18	.57	9	.0	0		2	1	0
KAHUKU 912	A	M	M	M		85	29	62	9	0	0	0	0	3.23	1.07	2.14	6	.0	0				
KANEOHE MAUKA 781		80.9	67.4	74.2	.0	86	12	51	10	0	0	0	0	5.32	.77	2.11	2	.0	0		10	3	1
KOOLAU DAM 833														M		2.67	2	.0	0			2	1
LUALUALEI 804		84.5	68.6	76.6		87	27	64	12	0	0	0	0	1.60		.94	2	.0	0			1	0
MAKAPUU POINT 724		80.9	68.5	74.7		85	8	62	7	0	0	0	0	.67	- .36	.48	2	.0	0			0	0
NUUANU RES 4 783														3.82	- 6.01	1.36	5	.0	0		6	2	1
OPAEULA 870	A	80.6	62.3	71.5	1.7	85	23	58	10	0	0	0	0	2.44	- .84	.87	2	.0	0			1	0
PALOLO VALLEY 718														7.00	- 4.52	1.72	2	.0	0		14	6	2
PRI WAHIAWA 820.2	A	83.4	63.2	73.3		89	30	58	12	0	0	0	0	1.90				.0	0				
PUNALUU 884	A													4.45		1.86	6	.0	0				
WAHIAWA DAM 863	A													2.43		1.09	7	.0	0			2	1
WAIAHOLE 837	A													12.37	.22	4.45	6	.0	0				
WAIALUA 847	A	83.0	63.5	73.3	- .1	88	28	59	8	0	0	0	0	.57	- .53	.29	2	.0	0		2	0	0
WAIKIKI 717.2		85.0	68.3	76.7		88	30	63	11	0	0	0	0	1.83		.80	6	.0	0		5	1	0
WAIPAHU 750	A													1.77	.57	.77	2	.0	0			1	0
ISLAND				74.6										3.21				.0					
* * *																							
ISLAND OF MOLOKAI																							
KUALAPUU 534	A													2.15	.57	1.13	15	.0	0			1	1
MAPULEHU 542														1.71	- 1.00	1.00	1	.0	0		6	1	1
MAUNALOA 511	A													.53	- .99	.23	2	.0	0		2	0	0
MOLOKAI AP 524		81.0	69.9	75.5		86	31	63	9	0	0	0	0	.95		.36	2	.0	0		4	0	0
ISLAND				75.5										1.34				.0					
* * *																							
ISLAND OF LANAI																							
LANAI CITY 672	A	76.2	62.8	69.5	1.0	81	14	57	26	0	0	0	0	2.01	- .66			.0	0				
ISLAND				69.5										2.01				.0					
* * *																							
ISLAND OF MAUI																							
HALEAKALA 8 E S 434	A													5.40	1.00	1.80	15	.0	0		8	4	2
HALEAKALA RS 338		63.0	43.4	53.2		76	24	36	9	0	0	0	0	1.69		.54	5	.0	0		3	1	0
HANA AIRPORT 355		80.9	67.9	74.4		84	31	61	9	0	0	0	0	6.71		2.15	12	.0	0		13	6	3
HONOKOHUA 493	A													1.44	- .82			.0	0			0	0
KAANAPALI AIRPORT		83.6	67.2	75.4		89	22	62	10	0	0	0	0	.22		.15	2	.0	0		1	0	0
KAHULUI WB AP 398	R	85.5	65.4	75.5	.2	91	31	58	10	3	0	0	0	.27	- .42	.07	2	.0	0		1	0	0
KAILUA 446		77.3	63.4	70.4	.0	82	14	58	9	0	0	0	0	8.20	- 1.72	2.20	2	.0	0		14	6	1
KEANAE 346	A													21.20	.10			.0	0				
KIPAHULU 258														4.00	- 3.94	.52	27	.0	0		1	1	0
KULA SANATORIUM 267		72.4	56.3	64.4	.9	76	30	53	1	0	0	0	0	.93	- 1.17	.36	5	.0	0		0	0	0
LAHAINA 361		85.0	66.9	76.0		90	14	64	8	1	0	0	0	.00	- .35	.00		.0	0		0	0	0
PAIA 406														1.39	- .72	.25	4	.0	0		3	0	0
WAILUKU 392		82.5	67.3	74.9	.5	89	30	62	9	0	0	0	0	1.34	.08	.50	16	.0	0		4	1	0
ISLAND				70.5										4.21				.0					
* * *																							
ISLAND OF HAWAII																							
HAINA 214		80.2	61.6	70.9	- .5	84	31	58	10	0	0	0	0	4.66	- .26	1.26	4	.0	0		11	4	1
HAWAII VOLCNS NP HQ 54		67.7	53.0	60.4	- .2	75	13	47	20	0	0	0	0	5.00	- 1.07	2.37	4	.0	0		9	2	1
HILO WB AIRPORT 87	R	82.4	66.5	74.5	1.5	86	30	61	9	0	0	0	0	7.83	- 1.50	2.14	3	.0	0		14	4	3
HUEHUE 92.1	A													3.20	- 1.47			.0	0				
KAINALIU 73.2		77.4	62.6	70.0		83	15	58	10	0	0	0	0	6.14	- 1.58	1.50	16	.0	0		12	4	1
KAMUELA AIRPORT 191		74.3	53.1	63.7		81	14	40	10	0	0	0	0	.28		.09	26	.0	0		0	0	0

See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

Continued

Station	Temperature												Precipitation									
									No. of Days								Snow, Sleet			No. of Days		
									Max.		Min.											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	81.9	63.5	72.7	.2	85	22+	59	12+	0	0	0	0	9.54	- .34	2.93	4	.0	0		15	5	3
KEALAKEKUA 26.2	77.5	63.0	70.3		82	15	59	10+	0	0	0	0	6.00		1.46	12	.0	0		9	5	2
KONA AIRPORT 68.3	82.3	66.4	74.4		86	15	62	6	0	0	0	0	2.14		1.25	7	.0	0		4	2	1
KUKUIHAELE HIC 199													4.48	- 2.23	.84	16	.0	0		9	4	0
KULANI CAMP 79	64.3M	46.6M	55.5M		72	13	41	12+	0	0	0	0	2.54		.41	3	.0	0			0	0
MAUNA KEA BEACH 98	84.7	70.1	77.4		90	16	64	8	1	0	0	0	1.22		.90	6	.0	0		2	1	0
PAHALA 21	78.9	62.5	70.7	- .3	83	14	58	7+	0	0	0	0	2.42	.10	.34	20+	.0	0		11	0	0
POHAKULOA 107 A													1.20				.0	0				0
PUAKO 95.1 A													1.32		.89	7	.0	0		2	1	0
PUU WAAWAA 94.1 A													1.04	- 1.69	.27	5	.0	0			0	0
UMIKOA 118													2.00	- 3.06			.0	0				0
WAIAKEA SCO 88.2													12.05		5.04	4	.0	0		17	5	2
ISLAND			69.1										4.06				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° AT KAHULUI WB AP 398, MAUI, ON THE 31+

LOWEST TEMPERATURE: 29° AT MAUNA LOA SLOPE OBS, HAWAII, ON THE 8+

GREATEST TOTAL PRECIPITATION: 32.94 AT KAHANA 883, OAHU

LEAST TOTAL PRECIPITATION: .00 AT 9 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.80 AT PRINCEVILLE RANCH 1117, KAUAI, ON THE 12TH

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
MAY 1969

Station		Total	Day of Month																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																	
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	3.56	.07	.10				.02			.71	*	*	1.76	.29	.09	.04	.08	*	*	.10					*	*	.30					
BRYOESWOOD STA 985	A	4.77		.09	*	*	.23	.08	.09	.01	.07	*	*	3.70	.22	.01			*	*	T					*	*	.26		T	.01		*	
EAST LAWAI 934	A	5.08	.02	.06	*	*	.36	.03	.13	.15	.06	*	*	2.92	.96				*	*	.01					*	*	.38			T			
ELEELE 927	A	1.75		.02	*	*	.09	.16				*	*	1.45	.03																		
HALAULA 1110	A	4.30	.04	.07	*	*	.04			.02	.42	*	*	2.62	.54	.05	.09	.06	*	*	.09					*	*	.26						
HALENANAHO 1006	A	7.24	.12	.06	*	*	.29		.22	1.12	.35	*	*	3.48	.79	.05	.02		*	*	.09					*	*	.57	.05		.03			
HUKIPO 945		1.23												1.12	.11																		
ILILIULA INTAKE 1050	A	13.25	.02	.72	*	*	2.15	.68	.08	.40	1.01	*	*	4.98	1.15	.06	.16	.05	*	*	.25			.01	.02	*	*	.76	.29	.08	.38			
INTAKE WAINIHA PC 1086	A	23.84	*	*	*	*	2.15	*	*	*	1.15	*	*	10.05	*	*	7.61	*	*	*	1.60	*	*	*	*	*	*	*	*	*	1.28			
KALIHIWAI RES 1131	A	13.72	.01	.20	*	*	.23	.12	.02		.24	*	*	7.21	4.44	.13	.18	.07	*	*	.21					*	*	.61	.04	.01		*	*	
KANALOMULUHULU 1075		3.90		.17				.34	.02	.09	.95	.58	.35	.52	.48		.05	.11	.06						.08	.07					.01	.02	
KANEHA RESERVOIR 1092	A	10.49	.02	.19	*	*	.20		.03	.06	.15	*	*	5.12	2.10	.80	1.02	.12	*	*	.23					*	*	.65						
KAPAA STABLES 1104	A	4.54	.01	.15	*	*	.07		.02			*	*	3.18	.50	.03	.14	.04	*	*	.10					*	*	.30						
KEALIA 1112	A	3.44	.03	.10	*	*	.02				.57	*	*	2.14	.13	.10	.02	.05	*	*	.08					*	*	.20						
KEKAHA 944		.39		.08								.10		.13	.08																		
KILAUEA 1134	A	6.43		.05	*	*	.18	.01	.01		.44	*	*	2.75	1.86	.22	.03	.08	*	*	.15				.02	*	*	.64	.01					
KILAUEA FIELD 17 1135	A	8.15	.01	.09	*	*	.27	.01	.01		1.05	*	*	3.18	2.34	.13	.04	.05	*	*	.24				.01	*	*	.67	.04	.01		*	*	
KILAUEA POINT 1133		6.06	.02	.13			.01			.87	.98	2.07	.44	.67	.13	.10	.05								.08	.44					.07		
KOLO 1033		1.06										.09	.41	.03	.33															.20			
KOLOA 936	A	4.93	.08	.23	*	*	.19	.06	.03	.11	.05	*	*	3.14	.60				*	*	.02					*	*	.40	.01		.01		*	
KOLOA MAUKA 994	A	8.11	.08	.23	*	*	.53	.31	.09	.18	.34	*	*	4.71	.72		.03									*	*	.53			.36			
KOLOKO RES 1137	A	7.88	.03	.13	*	*	.12		.01		.92	*	*	4.07	.92	.17	.25	.11	*	*	.30					*	*	.80	.05					
KUKUIULA 935	A	3.39	.01	.07	*	*	.15	.08	.01	.10	.02	*	*	1.88	.86				*	*	.01					*	*	.20						
LIHUE VARIETY STA		7.46	.13	.20	.08	*	.15	.01	.05	.36	1.21	.41	2.40	.78	.82	.14	.06	.02	*	.06	.01	.01				.19	.20	.02	.12		.01			
LIHUE 1020	A	3.17	.07	.05	*	*	.07	.01	.12	.15	.35	*	*	1.83	.04	.05	.08		*	*	.08	.01			.01	*	*	.23	.02					
LIHUE WB AP 1020.1	R	2.80	.15	.01	.05	.03		.01	T	.37	.68	.81	.18	.08	.07	T	.02	T	.09		T			.01	.04	.18	T		T			.02	
MAKAHUENA POINT 940.1		1.98	.02		.03	.01							.74	.34	.07			.01	.03						.01	.02	.14				.30		.26	
MAKAWELI 965	A	1.47				.01	.01				.15	.98	.21	.02																.03	.03	.03		
MANA 1026		.64												.31	.33																		
MOHIHI UPR CROSS 1083	A	4.99		.30			.42			.36	.67	.79	.55	.55	.18	.53	.16		.06							.24	.16						
MOLOAA 1145	A	4.59	.01	.06				.17		.02	.79	*	*	2.36	.38	.09	.07	.02	*	*	.29					*	*	.33						
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035		.81												.65	.16																		
N WAILUA OITCH 1051	A	12.78		.60	*	*	1.00	1.66	.66	.40	.76	*	*	4.10	.60	.20	.40	.20	*	*	.20					*	*	.80	.50	.10	.60			
PH WAINIHA 1115		16.03	.20	.50	.45	.02		.05			1.25	3.45	3.70	2.42	2.65	.23	.07	.07	.26	.12	T					.20	.24	.02				T	.13	
PRINCEVILLE RANCH 1117		15.01	.29	.14	.14	.13		1.25			.20	.72	.81	6.80	3.16	.53	.02	.08	.05							.31		.38						
PUEHU RIDGE 1040		1.91		.05					.16				1.05	.30	.35																		
PUHI 1013	A	5.46	.19	.15	*	*	.10		.30	.36	.41	*	*	2.34	.78	.02	.08	.05	*	*	.13	.03				*	*	.38	.07		.03	.04	*	*
RESERVOIR 6 1004	A	5.17		.21	*	*	.33		.09	.17	.25	*	*	3.08	.43				*	*	.05					*	*	.43	.04		.09			
WAHIAWA 930	A	1.53		T	*	*	.12	.22				*	*	1.09	.06											*	*	.04						
WAHIAWA MOUNTAIN 990	A	9.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.50	
WAIAHI LOWER 1054		9.34	.02	.22	.36	.12	.19	.52		.27	.57	.48	3.26	.67	1.23	.05	.20	.02	.05	.03						.23	.32	.04	.17		.32			
WAIAHI UPPER 1052		11.49	.05	.35	.42	.03	.87	.98	.02	.51	.95	1.03	2.35	1.55	.95	.05	.13	.04	.09	.03				.01		.29	.28	.07	.09		.35			
WAIAWA 943		.20		.03								.06	.07		.04																		
WAILUA KAI 1065	A	3.18	.03	.17	*	*	.05		.08	.06	.16	*	*	1.91	.19	.16	.03		*	*	.10					*	*	.24						
WAIMEA 947		.57											.52		.05																		
WEST LAWAI 931	A	3.18		.10	*	*	.11	.01			.01	*	*	1.82	.95											*	*	.18						
* * *																																	
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	2.28		.86				.05	.19			*	*	.92												*	*	.23				*	.03	
BERETANIA PUMPING STA		1.13	.10	.27	.10			.04	.12		.01	.36												.01			.12	T		T			
CAMP 84 807	A	3.71	.09	1.27	*	*	1.27	*	*	.56	*	*	*	.44											*	*	*	.04	*	*	.04	*	*	
CHURCH COLLEGE LAIE		2.22		.32			.02	1.26					.25	.20												.05	.05			.06		.01		
COCONUT ISLAND 840.1		2.62	.03	1.59			.05	.36	*	.07		.03		.17		.02		.03				.07					.12			.04	.04			
EWA PLANTATION 741		1.61		.58				.30	.38			.18															.03					.22	
HELEMANO INTAKE 881	A	3.97	*	1.20	*	*	*	.81	*	*	.72	*	*	.10	*	*	.75	*	*	*	*	*	*	*	*	*	*	.26	*	*	.13	*	*	
HOKULOA 725.2	A	3.40	*	*	.50	*	*	2.36	*	*	*	*	*	*	.20	*	*	*	*	*	*	*	*	*	*	*	*	.43	.04		.09		.34	
HONOLULU OBSERV 702.2		.51		.23				.02				.18																.01				.03	
HONOLULU WBFC 703	R	.81	.01	.20	T		.01	T	T		.57															T	.02	T					
HONOLULU SUBSTA 704		.77		.20	.03			.27							.20								.01				.06						
H S P A EXP STA 707		1.31		.36	.04	.05		.07	.20		.01	.41												.01			.11	T		.05			
KAHANA 883	A	32.94	*	*	*	*	10.30	7.60	*	*	*	*	*	4.86	*	*	*	*	*	*	2.78	*	*	*	*	*	*	1.22	*	*	*	*	6.18	
KAHUKU 912	A	3.23		.42	*	*	.06	2.14	.03			*	*	.45		.02	.06									*	*	.02			.03			
KAILUA FIRE STA 791.3		2.11		1.60	T	T			.43				.03	.05				T															
KALIHI RES SITE 777		10.48	.08	2.92	.10	.18	2.94	.10	.02	.56	.50	.02	.26		.20	.64	.32	.04	.02	.02							.16	.02	.60	.52	.02		.24	
KANEOHE MAUKA 781		5.32	.02	2.11	.09	.07	.04	.64	.81			.03		.27	.06	.04	.04	.14									.10		.12	.20	.24	.30		
KANEOHE RANCH 838	A	6.45	T	1.27	*	*	.10	2.08	.80	T	T	.20	*	.25	.75	.13	.10									*	*	*	.12	.30	.35	*	.20	
KAPALAMA 773	A	2.36		.78	*	*	.40		.17		.20	*	*	.38											.23	*	*	.10				.10		
KAWAIHAPAI 841	A	1.11		.18				.22				*	*	.40		.05	.17									*	*	.01				.08		
KAWAI IKI INTAKE 880.2	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KEMOO CAMP 8 855	A	.67		.27	*	*	.02	.18	.10			*	*	.02		.01	.01	*	*	*	*	*	*	*	*	*	*	.03			.03	*	*	
KOOLAU DAM 833		*	.29	2.67	.40	.44	.08	.65	.06	*	*	.32	*	*	*	.07	.16	*	*	*	*	*	*	*	*	*	.17	.19	.04	.05	.22	*	*	
LUALUALEI 804		1.60	.02	.94					.13			*	*	.26	.25																		
LUALUALEI WTR TUNNEL	A	9.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.16	*	*	
LUNALILO HOME 724.2		*						.78					*	.10		.05	*	*	.05										.05			*		
MAKAHA KAI 796	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		.67		.48												.01	.05	.02													.06			
MANOA 712		2.65	.06	.84	.11	.14	.01	.03	.55		.02	.15						.11						.04			.17	.14	T	.28				
MANOA TUNNEL 2 716		9.82	.12	2.60	.04	.10	1.50	.02	.04		.10	.04	.20	.06	.12	1.04	.26	.04	.02	.02	.02			.10	.04	.16	.96	.42	.36	1.30	.02		.12	
MOANALUA 770		1.67		.46	.08	*	*	.12	.22		*	.59															.20	T						
NUUANU RES 4 783		3.82	.06	.94	.06	.06	1.36	.06			.28		.02	.02	.04	.20	.08			.02							.04		.34	.18			.06	
NUUANU RESERVOIR 5 775	A	3.18	.03	1.23	*	*	.31	.12	.36							.60	.20	T						.02	T	*	*	.15	.12	*	T	*	.04	
OPAEULA 870	A	2.44	.01	.87	*	.30		.18	.05			*	.19	.01		.08	.45	.02								*	.17	.08	.02		.01			
PALOLO VALLEY 718		7.60	.42	1.72		.06	.62	.26			.20	.02	.16	.10		.94	.30		.02	.02	.04			.02		.20	.90	.38	.52	.64	.04		.02	
PAUOA FLATS 784		10.56	.20	2.78	.18	.20	2.54	.08	.04	.02	.44		.16	.06	.14	1.18	.28							.04	.06	.06	.66	.44	.34	.52	.02		.12	
PORTLOCK ROAD 724.4		1.16			.02	.01	.13	.82	.04	.01	.02				.01	.05			.02			.02	.01											
PRI WAHIAWA 820.2	A	1.90	*	1.14	*	*	.08	.22	.08			*	*	.28			.01									*	*	.08		T	.01	*	*	
PUNALUU 884	A	4.45	.04	.59	*	*	.15	1.86	.08			*	*	.69		.12	.07	.02						.03		*	*	.30	.02	.28	.20			
PUNCHBOWL CRATER 709	A	1.54	.19	.40	.09	.05			.45		.04	.03	.01											.02			.18	.01	.01	.01	.05			
ST STEPHENS SEM 788		7.91	.11	1.31	.01	.07	.20	2.11	.72	T		.24	.08	.23	.81	.11	.03							.03		.24	.38	.01	.26	.47	.49		T	
TANTALUS 2 780.5		4.70	.04	1.84	.30	.19	.22	.31	.08		.12	.29				.10	.22							.04	.02		.31	.30	.18	.12	.02			
UNIV OF HAWAII 713	A	1.65	.02	.43	*	*	.01	.04	.94		.02						.01							T		*	*	.10		.08				
WAHIAWA DAM 863	A	2.43		.77	*	*	.17	.22	1.09		.01	*	*	.02		.03	.01									*	*	.05			.04	*	*	
WAIAHOLE 837	A	12.37		3.07	*	*	.46	4.45	.11		.08	*	*	1.06		.43	.96	.35								*	*	.50		.61	.10	*	.19	
WAILAE KAHALA 715		1.19	.02	.20	.04	.01		.02	.04	T		.35	T				T									.03	T			.42	T		
WAIALUA 847	A	.57		.19			T	.09	T			.12	.04		T	.06	.02	T								*	*	.03			.02			
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIANAE MAUKA 803	A	4.43	*	*	1.10	*	*	*	.15	*	*	.20	*	*	*	.50	*	*	.02					*	*	.04	*	*	*	1.15	*	*	1.27	
WAIAWA 836	A	8.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.82	
WAIKANE 885	A	15.87	*	*	*	*	3.25	2.64	*	*	*	*	*	2.26	*	*	*	*	*	*	6.20	*	*	*	*	*	*	.32	*	*	*	*	1.20	
WAIKIKI 717.2		1.83	T	.19	.03			.80	.03		.01		.27													T				.12		.38		
WAILUPE RESV. 723.2	A	2.17	.11	*	*	*	*	*	*	.87	*	*	*	*	*	*	.50								*	*	*	*	.69				
WAIMANALO 794	A	3.05		.83				1.49	.27					.03	.09	.05	.02							.03				.06	.05	.13			
WAIMEA 892	A	2.22		.87	*	*	.50	.02				*	*	.15		.07	.39								.02	*	*	.20						
WAIPAHU 750	A	1.77		.77	*	*	T	.12	.13		.01	*	*	.33												*	*	.07				*	.34	
WILHELMINA RISE 721		1.52	.12	.44	.06	.02		.04			.18					.10	.06										.06	.06	.02	.36			

See reference notes following Station Index

DAILY PRECIPITATION

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • • ISLAND OF MOLOKAI																																	
KALAUPAPA 553	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KAUNAKAKAI 530	A	.06																															
KENELELE KEMS 551	A	.03																															
KUALAPUU 534	A	2.15		.44					T				*	.06			1.13	.20		*	T		.03				*	.29	T				
MAPULEHU 542		1.71	1.00	.05	.06	T							.01			.10								.14	.03		.11	.11	.10	T			
MAUNALUA 5[illegible]	A	.33		.23	*	.03			.05				.07				.11	.02									.12	.11	T				
MOLOKAI AP 524		.95		.36										T			.33	.03									.04	.07					
PUUOHOKI RANCH 542.1		1.08	.55		.01								.14			.17						.01			.09							
WAIKOLU 540	A	6.81					1.72							.50							3.75							.84					
• • • ISLAND OF LANAI																																	
KANEPUU 690	A	.07																								*	*	*	*	.07			
KAUMALAPAU HARBOR 658	A	.06			*	*	.06										T	.04						.12		*	*	.24	.05	.01			
LANAI CITY 672	A	2.01			*	*	1.40	T	.12			*	*	.03			T	*	.56	*	*	*	*		*	*	.44	*	*	*	*	*		.52
LANAIHALE 684	A	2.76	*	*	.70	*	*	*	*	*	*	.54	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MANELE 644	A	.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	*	*
[illegible]SEA 676	A	.37																	*	*	*	*	*	*	.37									
WAIAKEAKUA 685	A	.66	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.11	*	*
• • • ISLAND OF MAUI																																	
[illegible]MAHI-252	A	1.30									.30								1.00														
HALEAKALA @ E S 434	A	5.40	.02	1.40	.12	.31		.19						.65			1.80	.59									.09	.22					.01
HALEAKALA RANCH 432	A	2.63	*	.89	*	*	.32	*	*	*	*	*	*	.32	*	*	.89	.21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
HALEAKALA RS 338		1.69	*	.09	.05	.07	.54	.28		T	T	T	.02	.49	T		.02		T				.07	.02						.04			
HALEAKALA SUMMIT 338.4		.70		*	*	*	.10	T				*	*	.55					*	*	.05											
HALIIMAILE 423	A	2.71	.02	.68	*	*	.33					*	*	.15			.84	.48				.03				*	*	.17	.01				
HAMAKUAPOKO 485		2.45	.05	.14	.63	.09	.01							.30			.15	.04				T				.04	.01	.13	.50	.30	.07			
HANA 354		2.53	.13	.37	.07		.54	.34														.18	.06	.10	.02	.03	*	.53	.14				.02
HANA AIRPORT 355		3.71	.19	.80	.05	.15	.87						1.12	2.15			.70	1.44	T			.21	.05	.04	.18	.04	.26	.25	.25	.05	.07		.04
HANAHULI 281		6.71	.04	.36	.20	.28	.03	.13	T	.11	T		.34	1.27	.08	T	.92	.81		.10	.22	.27	T	.02	T		.03	.60	.40	.06	.12	.15	.17
HOLUA CABIN 259.5	A	1.21	*	*	*	*	*	*	*	.65	*	*	*	*	*	*	*	*	*	*	*	*	*	.56			*	*	*	*	*	*	*
HONOKOHAU 480	A	15.40	*	15.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.34	.15	.04			
HONOKOHUA 493	A	1.44	.08	.20	*	*	.47					*	*	.05			.03	.03	*		*	.02		*	.03	*	*	*	*		*		2.60	
HONOMANU GULCH 341	A	2.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
KAANAPALI AIRPORT		.22		.15													T										.02	.05	T				
KAHOMA INTAKE 374	A	4.00	*	*	*	*	3.65	*	*	*	*	*	*	.10	*	*	*	*	*	*	*	*	*	*	.10	*	*	*	*	*	.15	*	
KAHULUI WB AP 398	R	.27	.05	.07									.02			T	.03				.01		T		.02		.03	T	.04				
KAILILILI 436	A	11.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	T	*	*	*	*	*	.17	*	*	*	11.03
KAILUA 446		8.20	.06	2.20	.32	.60	.15	.21						.43			.88	.65	.05	*	.18	.16			.06	.05	*	.45	.86	.75	.12			.02
KAUAULA INTAKE 375	A	1.04	*	*	*	*	.37	*	*	*	*	*	*	.13	*	*	*	*	*	*	.08	*	*	*	*	*	*	.46					
KEAMUA 410		1.01		.26	.22	.01								.1[illegible]			.34	.06										.02					
KEANAE 346	A	21.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	21.20
KEAWAKAPU BEACH 260.2		.00																															
KIHEI 311		.00																															
KIPAHULU 298		4.00	.09	.34	.20	.49	.20	.24	.06	.16			.18	.42			.33				.06			.27			.19	.14	.52	.11			
KULA HEIGHTS 323.2		.34				.20								.14																			
KULA SANATORIUM 267		.93					.36	.02				.03	.04	.09									.10	.13						.06			.10
LAHAINA 361		.00																															
LAUNIUPOKO INTAKE 376	A	1.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40
LAUNIUPOKO VILLAGE 372	A	.00																															
LUPI UPPER 442	A	10.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.90
MAHINAHINA 466	A	2.20	.05	.15	.58		.10							.04			.35	.13										.63	.17				
MAKALELE -FLD 60-497	A	.97	*	*	*	*	.42	*	*	*	*	*	*	.06	*	*	*	*	*	*	.06	*	*	*	*	*	*	.30	*	*	*	*	.13
OLINDA 332	A	2.62	*	.18	*	*	.55	.15	.01		*	*	.60	T	*	.26	.01					.07	.11	.01					.07	T	*	*	*
OLOWALU 296		.00																															
OLOWALU GULCH 377	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20
PAAKEA 350		17.95	.33	1.62	.58	1.00	.40	.95						.96			4.65	2.22	.30		.60	.17		.06	.12	.22	.45	2.11	1.02	.10			.09
PAIA 406		1.39	.04	.22	.22	.25	.02							.04			.13	.07							.02	.02	.12	.14	.10				
PANILEIHULU 259.2	A	4.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.50
PAUWELA 490	A	4.31	.12	1.26	*	*	.27					*	*	.44			.50	.12	*	*	.03	.04			.08	*	*	.84	.57	.02		*		
POHAKEA BRIDGE 307.2	A	.02	*	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
POLIPOLI SPRINGS 267.2	A	2.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.30	*	*
PUOMUKAHOA 2 343	A	25.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.00	
PUU KAUI MAKAI 472	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00	
PUUNENE 396		.20		.09	.05									.01			.02								.01	.01	.01	T					
SPRECKELSVILLE 400.2		.59	.01	.16	.10									T			.12	.04							.04	.01	.06	.03	.02				
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	2.91	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.91
UKUMEHAME 301	A	.00																															
ULUPALAKUA RANCH 250		1.13					.78					.08		.1[illegible]														.11					
WAHIKULI 364	A	.03		.01	.02																												
WAIEHU CAMP 484	A	1.21	*	.09	*	*	*	*	*	*	*	*	.05	.08	*	*	*	.45	.24	.01	*	.05	*	*	.03	*	.05	.04	.12	*	*	*	*
WAIEHU VALLEY 482	A	2.98	*	.10	*	*	*	*	*	*	*	*	.19	.2[illegible]	*	*	.02	1.45	.35	.01	.01	.04	*	*	.03	*	.10	.05	.11	.15	*	*	*
WAIKAMOI 449	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WAIKAMOI DAM 336	A	11.53	*	1.93	*	*	1.91	.54	.01	T	T	*	*	.64	.01	.02	2.58	1.02	.08	*	*	.08	.18	.41	.07	*	*	1.03	.41	.60	.01	*	*
WAIKAPU 390	A	.28	*	.03	*	*	*	*	*	*	*	*	*	.01	*	*	.01	.20	*	*	*	*	*	*	.02	*	*	*	.01	*	*	*	*
WAILUKU 392		1.34	.02	.13	.02								.19	.13	.02		.09	.50	.01	.02		.02			.06	.02	.01	.02	.06	.02			
WAIOPAI RANCH 256	A	1.64	*	.45								*	*	1.19																			
• • • ISLAND OF HAWAII																																	
AHUA UM1 75	A	2.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.10
AKINI 182.1	A	8.23	.03	.39	*	*	2.39								.16	.39	.55	.94	*	*	.89				.35	*	*	1.56	.58				
EAST HONOKANE 183.2	A	8.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*	*	*	*	*	8.12
HAINA 214		4.66		.09	.06	1.26							.24	.22			.59	.51	.01	.12		.04	.15		.17	.05	.30	.03	.22				
HAKALAU 142		6.94	.04	.58	.44	1.57	.33	.08					.43	.21	.01	.16	.59	1.05	.10	.02	.05				.19	.05	.09	.05	.40	.50			
HALEMAUMAU 52	A	1.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.70
HALEPIULA 117	A	.94	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.94
HALEPOHAKU 111	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAWAII VOLCNS NP HQ 54		5.00	.02	.57	.31	2.37	.38	.21	.12	.09	.03		.02				.06	.02	.02	.03	.03	T	.05	.02	.10	.02	T	.03	T	.26	.01	.03	.20	
HAW. 1880	A	2.53		.37	*	*	.59										.02	.23	.15	*	.01					.05	*	*	.87	.23	.01			
HILO WB AIRPORT 87	R	7.83	.35	.81	2.14	1.32	.27	.10				.03	.05	.07	.33	.03	1.21	.16	T	T	.07		.01	.01	.03	.06	.22	.32	.07		.08	T	.09
HOLUALOA 70	A	7.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.60	*	*	*
HOLUALOA BEACH 68	A	1.28					.45				.07							.32										.44					
HONAUNAU 27		6.37	1.86	.74	.02		.01	.02	.48	.05	.79	.09	.20	.50	.10	.08	.20	.46	.05	.02	.10	.02	.05	.02	.05	.02	.03	.04	.02	.31	.02	.02	
HONOHINA 137		8.63	.06	.38	.66	2.27	.24	.08					.32	.37		.08	1.75	.93	.16	.01	.06				.15	.10	.12	.04	.38	.47			
HONOKANE 181.1	A	5.38	.04	.22	*	*	1.62								.27	.11	.18	*	*	*	.62					.26	*	*	1.53	.53			
HONOMUAUKA 138		14.05	.20	1.17	1.04	3.37	.35	.60					.65	.58			.75	2.60	.40	.01	.07			.21	.20	.44	.01	.66	.58	.01	.01	.13	.01
HONUAULA 71	A	2.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.40	*	*
HUALALAI 72	A	.78	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.78	*	*	*
HUEHUE 92.1	A	3.20	*	*	*	*	*	3.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KAALA IKI 12	A	5.13		.08	.18	.29		.15	.12	.80	.22		.45	.08	.09	.09	.15	.02	T		.15	.33	.07	.39	.19	T		.02	.86	T	.33	.07	
KAAWALOA 29	A	5.43	.86		*	*	.23	.26	.35	.05	T	*	*	1.36				1.22	*	*	.36	.01	.07		.01	*	*	.65		T		*	*
KAINALIU 73.2		6.12	.95			.10	.18	.41	.65	.49	T	.24		.33				1.50	.08	.16	.01	.21	T		.04	.02	.59	.07		.08	.01		
KALAPANA NO 1 67.8		4.99	*	*	*	2.75	.28	*	.32	*	*	.02		.06	*	.90	*	*	T					.04	*	*	*	.04	*	.30	*	*	.28
KAMAOA NO 2 5	A	1.91	*	*	*	.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.36	*	*	*	*	*	*	.80
KAMUELA 192.2		.63	.02	.10		.04												.03								.08	.05	.14	.14	.03			
KAMUELA AIRPORT 191		.28	.01	.01	T	T						.07	T													.03		.10	.03	.04			
KAPAPALA RANCH 36	A	3.70	.08	.18	*	*	.68	*	*	.25	.31	.12	.08	*	*	.15	.25		.24	.12	.10	.04	.01	*	.48	.10	.41		.16	*	*	*	*	*
KAPOHO LANDING 93.5	A	11.03	*	5.07	*	*	*	*	*	*	2.78	*	*	*	*	*	*	2.17	*	*	*	*	*	*	*	*	*	*	*	*	*	.85	*	*

See reference notes following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		10.78	.38	.41	.70	4.25	.48	.36	.05				.05	.16	.12	.08	.06	1.24	.28	.05	.01	.21		.23	.09	.26	.03	.21	.55	.02		.27	.23
KAWAINUI LOWER 193	A	14.73	*	6.40	*	*	*	*	*	*	1.17	*	*	*	*	*	*	.98	*	*	*	*	*	*	3.70	*	*	*	*	*	2.48	*	*
KEAAU 92		9.54	.11	.63	1.09	2.93	.71	.26	.02				.11		.21	.23	.30	1.42	.30	.02	.04	.07		.06	.06	.19	.02	.20	.46		.02	.08	
KEALAKEKUA 26.2		6.00	.80			T	.70	.28	.40	.09	T	.28		1.46				1.10	.16	.09	T	T	.06		.01	T	.53	.02	.01			.01	
KEHENA 181.2	A	4.67	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.67
KIOLAKAA A & F 6	A	3.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.70	*	*
KIPA 89.2	A	12.83	.25	.75	1.15	4.80	.52	1.44					.25	.15	.01		.06	.86	.15	.06	.04	.07		.32	.11	.25	.05	.25	.79			.06	.25	.19
KOHALA 179.1	A	2.79	.01	.23	*	*	.92					*	*	.01		.02	.50	.25	*	*	.04				.04	*	*	.58	.18	.01				
KOHALA MAULILI 176	A	3.12	.01	.17	*	*	1.10					*	*	.02		.05	.26	.31	*	*	.11	.01			.07	*	*	.72	.28	.01				
KOHALA MISSION 175.1		3.16	.01	.35	.26	.76	T						.01	T		.06	.41	.27	.06						.08	.07		.57	.25	T				
KOIAWE LOWER 196	A	7.24	*	3.80	*	*	*	*	*	*	.23	*	*	*	*	*	*	1.10	*	*	*	*	*	*	.59	*	*	*	*	*	*	1.52	*	*
KONA AIRPORT 68.3		2.14						.55	1.25	.05	.09	T					.10										T	.10					T	
KONA VILLAGE 93.8		2.30		1.08			.12	1.10																									
KUKAIAU 222		0.06	.05	.08	.32	1.68	.31						.15	.26		.35	.20	1.40	.19	T	.10	.14		.12	.10	.27	.06	.28	T				T	
KUKUIHAELE MIC 199		4.48		.08	.20	.82								.52		.62	.28	.84	.08		.04				.30	.32		.38					
KUKUIHAELE MILL 206	A	2.57		.11	*	*	.61					*	*	.12		.53	.25	.40	*	*	.05				.04	*	*	.46					
KULANI CAMP 79		2.54	.15	.16	.41	*	.27	.30	.06	.01	.02	.14	.04			.06	.14	.28	.13										.14				
KULANI MAUKA 76	A	1.15	.03	.10	.77	.23	.02															.08	.08	.07									
KULANI SCHOOL SITE 78	A	7.25	*	*	2.80	*	*	*	*	*	*	3.15	*	*	*	*	*	*	.78	*	*	*	*											
LANIHAU 68.2		4.69	.12		.13	.06	.75	.91	.28		.02	1.23					.04			.04				*	*	.12	*	*	*	*	*	*	.40
MANUKA 2	A	2.04	.04	.12	*	*	*	*	.58	.04	.16	*	*	.11		.06	.19	T	*	*	.72	T	.01	.18	.26	.04	.11	.31		.06	.15		
MAUNA KEA BEACH 98		1.22				.02		.90	.04	.17																		.01					
MAUNA LOA SLOPE 085		.65	.12	.17	.02	.28																							.09				
MIDDLE HOLUALOA 68.1	A	2.85	.62	*	*	*	.57	*	.54	*	*	.06																					
MIDDLE PEN 147.1	A	.83	*	*	*	*	*	.63	*	.20	*	*	*	*	*	*	*	.60	*	*	*	*	*	*	*	*	*	.52	*	*	*	*	*	*
MOAULA 18	A	1.73	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MOUNTAIN VIEW 91		13.45	.21	.20	1.78	4.85	1.18	1.05	.06	.02	.03		.16	.03	.02	.48	.06	1.02	.43	.03	.05	.19		.07	.12	.28	.03	.29	.30	.05	.05	.31	1.73
NAALEHU 14	A	2.52	.01	.46	.08	.63	.06	.05	T	.28	.02	*	*	.01	T	.08	.01		*	*	.03	.10	T	.20	.04	*	*	T	.25	T	.16	.05	.10
NAPOOPOO 28	A	3.37	*	*	*	*	1.09	*	*	*	*	*	*	.78	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
NAULU FOREST 38.6		6.48	*	*	*	2.93	.46	*	.32					.01	*	*	*		1.75	.20	.98	*	*	.04	*	*	*	.52	*	*	*	*	*
																												.01	*	.24	*	*	.50
NIULII 179	A	3.38	.02	.38	*	*	1.25										.42	.38	*	*	.08				.03	*	*	.67	.15				
OOKALA 223		8.26	.03		2.65	.43	.01	.01					.22	.26		.49	.10	2.61	.12		.02	.17	.02		.03	.51	.05	.46	.07				
OPIHIHALE 2 24.1		2.38	.12	T	.01		T	.07	T	.36	.07	T	.16	T		.08	.83	.31	.21	.01		.05	T	.01	T	.05		T					
ORCHID LAND EST 91.5	A	11.91	*	4.71	*	*	*	*	*	*	3.69	*	*	*	*	*	*	2.30	*	*	*	*	*	*	.40	*	*	*	*	*	T	.04	T	
PAAUHAU 217		4.42	.01	.04	.09	1.17	.01						.13	.41		.61	.38	.58	.13		.02	.34		.07	.01	.21		.21			.81	*	*
PAAUILO 221		4.91	.02	.04	.16	1.14							.10	.30		.44	.31	1.13	.09	T	.14	.21		.17	.05	.26	.09	.26	T				T
PAHALA 21		2.42			.16	.16	.02	.09	.16	.34	.01		.12	.04	.15	.20	.22					.34	.13	.09					.06		.13			
PAHOA 65		11.72	.21	.85	1.18	3.17	.77	.33					.13	.02		1.45	.75	.91	.08		.01	.06		.10	.14	.34	.04	.35	.35	.03	.12	.24	.09
PAKAO 37	A	5.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.60
PAPAIKOU 144.1		7.11	.11	.61	.65	2.55	.37	.10					.05	.07	T	T	.04	1.00	.16	.01	.06	.09		.14	.17	.08	T	.38	.37	.01	T	.09	T
PAPAIKOU MAUKA 140.1		12.65	.17	1.16	.54	3.68	.55	.38	.02				.14	.67	.01		.14	2.08	.27	.05	.15		T	.21	.22	.72	.01	.42	.69		.08	.23	.06
PEPEEKEO MAKAI 144		7.12	.02	1.12	.94	1.13	.32	.23					.29	.08	.01	.34	.41	.74	.10		.03			.08	.26	.03		.58	.38				.03
PIIHONUA 89	A	14.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.08	.23	.03	
POHAKULOA 107	A	1.20	*	.65	.31	.24									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.60
PUAKO 95.1	A	1.32						.38	.89	.03																			.02					
PUU KIHE 120	A	1.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.68
PUU LAAU 102.1	A	1.52	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.52
PUU LEHUA 73	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
PUU MALI 113	A	.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.62
PUUOKUMAU 167	A	2.27	.01	.09	*	*	.71					*	*	.06		.05	.16	.13	*	*	.02	.01			.08	*	*	.63	.31	.01				
PUU OO 82		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUU WAAWAA 94.1	A	1.04		.17		.08	.27	.18	.04					.10												*			.17		.03		
SADDLE ROAD 1 84	A	15.25	*	7.30	*	*	*	*	*	*	7.00	*	*	*	*	*	*	.85	*	*	*	*	*	*	.10	*	*	*	*	*	*	*	*
SOUTH POINT CORRAL 3	A	1.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.35
UMIKOA 118		2.00	.03	.10	*	*	.65					*	*	.19		.02	*	.77	*	.02	.02	.10		.05	.02	*	*	.03					
UPOLU POINT USCG 159.2		1.37		.23	.11	.32	.02						.09				.01	.23							.01			.30	.05				
WAIAKEA SCO 88.2		12.05	.20	.86	.74	5.04	.67	.12					.25	.14	.10	.07	.03	1.51	.20	.03		.24		.18	.09	.29	.02	.20	.49	.03	.07	.34	.09

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.) Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Relative humidity averages percent 150TH MERIDIAN TIME 2 AM	8 AM	2 PM	8 PM	Number of days with precipitation Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of possible sunshine	Average sky cover sunrise to sunset
LIHUE, KAUAI, WB AIRPORT	5	7.0	10.2	21	E	03+	82	78	70	77	6	11	4	2	0	0	23	53	6.3
HONOLULU, OAHU, WBFC	5	6.7	11.2	27	NE	03	80	70	58	73	5	3	1	1	0	0	10	73	4.8
KAHULUI, MAUI, WB AIRPORT	4	10.0	11.1	31	E	03	85	73	57	76	3	8	0	0	0	0	11	81	4.5
HILO, HAWAII, WB AIRPORT	17	0.6	7.4	22	E	11	91	79	73	84	3	12	7	1	2	1	26	44	7.3

See reference notes following Station Index.

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	69	67	67	68	72	68	70	64	65	67	67	65	67	68	70	63	70	69	68	73	73	71	74	71	72	74	74	74	72	73	70	69.5
	MIN	54	54	54	53	45	43	50	52	52	55	56	56	53	54	54	50	51	49	45	44	46	47	54	60	55	56	49	48	50	55	50	51.4
KILAUEA POINT 1133	MAX	81	78	80	79	79	78	83	82	76	75	76	80	76	80	79	80	78	80	79	79	81	82	80	76	76	80	80	85	86	78	84	79.5
	MIN	67	65	64	64	68	67	68	67	66	66	69	66	69	68	68	66	69	62	68	68	71	70	70	69	72	70	71	71	72	74	70	68.2
LIHUE WB AP 1020.1	MAX	80	80	81	81	82	82	81	81	78	80	81	81	81	80	79	80	77	80	81	81	81	82	83	82	82	82	83	83	84	85	84	81.2
	MIN	68	71	70	72	69	66	67	64	67	69	70	70	71	71	70	69	68	66	68	66	66	69	74	72	74	72	74	70	69	71	71	69.5
MAKAHUENA POINT 940.1	MAX	84	85	84	84	86	87	89	90	86	86	86	86	80	87	83	83	79	78	81	84	85	85	89	85	83	82	85	87	88	88	86	84.9
	MIN	67	69	70	68	67	67	69	67	66	65	65	66	66	70	67	68	63	63	67	68	68	69	73	71	73	69	72	69	70	74	70	68.3
MANA 1026	MAX	86	83	85	86	85	86	88	83	83	83	83	83	82	87	82	84	85	84	84	83	85	85	89	88	88	87	87	87	88	88	89	85.4
	MIN	62	60	62	61	61	63	65	63	63	64	65	66	63	62	62	62	61	63	64	65	65	65	66	71	68	68	67	67	68	69	70	64.5
NIU RIDGE 1035	MAX	80	79	78	79	79	79	78	80	79	78	78	78	75	80	78	76	78	79	78	80	80	80	81	79	80	81	80	80	81	82	81	79.2
	MIN	58	58	56	57	58	58	58	59	60	59	60	60	59	60	60	60	60	61	60	60	60	61	60	60	63	62	64	63	65	63	62	60.1
WAIAHI LOWER 1054	MAX	78	77	75	78	78	78	78	75	75	73	73	76	79	78	75	76	76	75	78	76	78	79	80	78	79	77	78	80	79	78	80	77.2
	MIN	60	64	64	65	62	58	61	58	59	63	65	66	61	64	60	60	60	60	61	58	60	60	62	64	63	65	67	63	61	64	65	62.0
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	82	81	82	82	82	80	83	81	79	82	85	85	85	84	83	80	83	81	84	84	84	85	85	85	83	85	85	83	84	84	84	83.1
	MIN	62	66	67	67	63	63	62	61	61	61	63	63	64	69	67	65	67	65	62	63	62	64	68	67	69	68	69	67	68	69	66	65.1
HONOLULU WBFC 703	MAX	84	84	84	84	83	82	83	82	82	83	87	84	84	85	84	83	84	84	85	84	82	87	87	87	86	88	88	84	84	84	85	84.4
	MIN	68	68	71	70	67	67	66	64	66	65	67	68	67	70	70	68	70	68	66	66	67	69	73	72	72	72	73	71	73	73	71	69.0
HONOLULU SUBSTA 704	MAX	80	79	79	80	78	80	82	78	77	80	81	82	83	79		78	80	80	81	82	82		80	81	79	80	83	80	80			80.1
	MIN	69	68	70	70	68	68	67	68	67	66	70	69	69	70	69		71	70	69	69	69			69	70	72	71	70	73	73		69.4
KAHUKU 912	MAX	79	80			81	81	80	81	81			80	83	83	80	79			80	82	82	83	82			83	83	84	85			
	MIN	70	67			70	65	64	63	62			66	66	72	70	69			65	64	64	69	73			71	74	72	69			
KANEOHE MAUKA 781	MAX	80	79	78	79	79	80	80	81	80	81	80	86	84	82	80	78	78	80	79	81	81	83	83	82	83	80	81	80	80	85	84	80.9
	MIN	67	66	66	70	68	63	65	65	65	61	65	67	64	67	69	68	67	67	67	65	67	68	72	71	68	71	70	70	71	69	70	67.4
LUALUALEI 804	MAX	80	85	82	83	85	83	82	84	85	83	83	86	87	85	86	85	83	84	84	85	84	83	86	87	86	86	87	86	84	86	84	84.5
	MIN	69	68	73	73	65	65	64	64	65	66	69	64	65	71	70	69	71	70	67	66	66	67	73	74	74	73	71	68	70	70	68	68.6
MAKAPUU POINT 724	MAX	78	74	82	81	83	76	82	85	82	80	82	79	82	83	76	81	77	79	79	80	81	83	80	83	84	83	80	80	84	84	84	80.9
	MIN	69	62	69	69	70	65	62	63	68	69	66	68	69	69	65	69	69	69	70	69	71	67	71	69	70	70	72	70	70	72	71	68.5
OPAEULA 870	MAX	81	72	75	77	78	82	77	81	82	80	81	80	84	85	82	77	78	82	80	83	85	82	85	78	82	77	82	84	80	84	84	80.6
	MIN	60	59	64	63	63	63	61	59	59	58	61	65	62	62	62	61	62	60	60	61	61	61	62	66	65	66	67	65	67	64	62	62.3
PRI WAHIAWA 820.2	MAX	82	82	78	78	83	83	81	82	81	80	82	84	85	82	82	83	80	84	83	86	85	84	86	86	86	85	85	87	84	89	87	83.4
	MIN	60	64	65	64	59	61	60	58	58	60	62	58	61	67	65	64	66	63	60	61	60	63	67	69	69	65	67	67	66	67	64	63.2
WAIALUA 847	MAX	80	81	80	80	82	83	81	84	83	81	82	85	85	82	80	80	80	84	83	85	84	85	86	83	85	83	86	88	83	85	85	83.0
	MIN	59	61	67	64	62	63	62	59	61	62	63	62	64	68	65	63	64	64	61	61	62	61	65	65	64	70	66	64	65	67	66	63.5
WAIKIKI 717.2	MAX	84	83	82	83	83	85	84	88	84	85	84	84	86	88	85	82	81	83	84	87	87	87	87	86	85	85	86	86	86	88	86	85.0
	MIN	68	68	70	66	71	67	65	63	64	66	63	67	66	69	70	69	70	68	64	65	64	69	74	73	72	73	72	70	70	70	70	68.3
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	79	80	78	80	81	82	79	83	81	81	82	83	83	83	80	79	78	79	80	79	81	84	81	79	81	78	79	84	84	84	86	81.0
	MIN	69	67	69	71	70	71	71	64	63	64	72	71	71	73	69	69	69	71	71	71	72	72	72	72	68	68	72	75	74	69	68	69.9
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	74	75	73	75	76	76	74	74	76			76	80	81	77	76			76	76	79	80	76			77	72	76	78			76.2
	MIN	63	64	62	64	58	63	60	61	60			64	66	67	65	64			64	64	63	62	65			57	66	63	60			62.8
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	62	58	59	61	57	56	58	62	58	59	59	58	62	63	65	63	63	63	63	65	61	65	72	76	71	70	72	64	63	61	63	63.0
	MIN	39	45	44	39	38	38	40	36	36	49	41	43	42	44	40	47	49	50	49	40	37	43	51	51	52	55	45	39	39	42	42	43.4
HALEAKALA SUMMIT 338.4	MAX	52				53	52	51	52	57			55	55	54	57	58			59	62	63	68	70			69	59	60	65			
	MIN	37				37	34	35	36	36			37	39	33	39	34			40	45	45	49	50			42	51	47	44			
HANA AIRPORT 355	MAX	80	80	80	80	82	81	81		80	80	82	81	82	81	81	79	74	78	80	81	82	83	82	82	81	80	80	82	83	84	84	80.9
	MIN	66	68	69	69	67	67	65		61	62	67	69	65	65	70	65	66	69	69	69	68	69	70	75	70	70	70	69	68	70	70	67.9
KAANAPALI AIRPORT	MAX	82	82	83	83	83	82	85	82	82	82	84	84	84	84	83	80	81	84	84	84	83	89	86	84	85	81	81	85	85	86	88	83.6
	MIN	65	68	69	69	66	64	65	63	64	62	65	67	69	69	69	68	69	66	65	64	69	67	71	69	70	69	70	69	67	68	69	67.2
KAHULUI WB AP 398	MAX	84	84	84	86	87	87	85	83	83	83	82	86	86	85	83	82	83	85	84	85	87	88	86	87	83	86	87	89	91	90	91	85.5
	MIN	64	65	69	68	61	62	61	58	58	58	69	67	62	68	70	69	69	69	64	62	63	63	70	71	71	68	70	65	64	64	65	65.4
KAILUA 446	MAX	76	76	75	74	76	74	77	78	78	78	78	77	81	82	81	71	74	75	67	76	79	79	79	78	79	79	80	78	80	81	80	77.3
	MIN	62	63	63	64	64	61	60	59	58	60	60	64	62	64	67	64	64	66	65	62	63	63	66	66	66	66	66	66	63	66	63	63.4
KEAWAKAPU BEACH 260.2	MAX	84	87	89	88	86	85	86	87	85	86	86	84	83	89	87	84	84	83	86	86	85	86	90	89	89	87	87	90	90	90	86	86.6
	MIN	59	64	69	61	64	63	62	60	60	61	62	66	62	69	69	64	67	64	61	62	64	64	64	64	66	64	64	67	65	66	66	63.7
KULA SANATORIUM 267	MAX	72	70	77	73	70	71	71	74	70	69	68	68	73	74	75	75	75	72	73	72	70	71	74	75	72	75	74	74	73	76	73	72.4
	MIN	53	54	55	55	56	56	55	54	54	55	56	56	56	57	58	57	58	59	55	56	57	55	56	56	57	57	57	58	61	59	57	56.3
LAHAINA 361	MAX	84	85	89	84	84	84	86	82	82	88	83	85	85	90	87	85	84	84	84	85	83	87	84	85	86	87	86	85	85	86	88	85.0
	MIN	64	68	69	66	67	67	66	64	65	69	65	69	66	67	68	66	68	67	66	65	66	68	68	67	69	69	69	69	68	69	68	66.9

See Reference Notes Following Station Index

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
WAILUKU 392	MAX	81	81	80	81	81	84	64	82	83	83	83	81	85	84	83	80	78	80	82	82	84	85	84	84	83	81	75	82	87	89	86	82.5
	MIN	67	68	69	69	65	65	64	64	62	65	68	67	68	65	71	67	69	70	65	65	67	68	70	71	70	70	69	67	67	67	68	67.3
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	80	78	79	75	79	81	80	82	80	80	79	80	82	82	78	78	73	78	80	80	81	82	83	80	81	82	81	83	82	83	84	80.2
	MIN	60	61	61	61	60	60	59	59	58	58	64	62	62	65	64	62	64	62	62	61	60	62	64	63	65	65	62	61	63	60	61	61.6
HAWAII VOLCNS NP HO 54	MAX	66	66	60	64	61	66	62	65	65	69	70	74	75	72	69	68	65	63	65	67	70	72		66	69	71	71	70	72	67	72	67.7
	MIN	50	52	51	54	53	52		48	48	47	53	48	54	58	58	55	52	54	54	47	51	56	56	56	55	57	56	53	58	50	54	53.0
HILO WB AIRPORT 87	MAX	80	80	78	80	81	82	82	82	81	83	82	84	84	83	81	77	79	81	81	84	85	84	83	83	85	84	84	85	84	86	85	82.4
	MIN	63	66	66	67	67	64	62	62	61	62	67	64	64	68	68	68	69	69	69	64	65	71	70	69	69	69	69	68	71	64	65	66.5
KAINALIU 73.2	MAX	78	76	78	78	79	78	76	74	75	76	77	79	79	82	83	82	77	74	73	78	76	77	76	77	77	75	78	78	78	76	78	77.4
	MIN	59	61	61	61	59	63	61	60	59	58	61	61	63	65	65	65	63	65	63	60	61	62	66	67	66	63	66	67	63	63	64	62.6
KAMUELA 192.2	MAX	72	73	70	68	70	70	75	74	75	75	75	79	80	80	76	75	76	72	73	76	76	75	75	72	70	72	73	76	78	78	78	74.4
	MIN	56	52	55	53	50	53	48	44	43	44	47	55	53	56	58	58	56	57	56	50	50	52	56	58	60	60	57	56	53	46	48	52.9
KAMUELA AIRPORT 191	MAX	71	71	71	70	73	73	75	76	76	76	74	77	78	81	76	73	71	71	75	71	76	76	71	73	73	75	74	75	77	77	77	74.3
	MIN	53	53	55	49	66	52	46	44	48	40	58	54	55	58	58	56	57	55	55	51	54	53	54	48	49	54	67	49	53	49	52	53.1
KEAAU 92	MAX	80	78	80	80	80	78	81	83	81	84	84	84	65	82	81	75	80	80	80	84	84	85	83	83	83	83	82	83	84	84	84	81.9
	MIN	62	62	63	63	63	64	60	60	59	59	59	59	62	64	68	65	64	64	64	63	64	65	67	67	67	67	67	67	66	63	63	63.5
KEALAKEKUA 26.2	MAX	77	77	78	78	78	77	76	74	74	77	78	79	79	81	82	80	77	73	74	77	77	78	78	76	78	75	79	80	79	77	79	77.5
	MIN	61	62	62	62	61	63	61	59	59	59	61	61	65	65	66	65	63	65	63	62	61	62	67	67	66	64	65	66	63	64	64	63.0
KOHALA MISSION 175.1	MAX	77	76	76	74	78	78	78	79	79	79	79	80	82	82	81	76	74	77	78	79	81	81	81	79	79	81	80	80	81	82	82	79.0
	MIN	64	62	64	64	64	63	61	61	62	61	66	65	65	69	68	66	65	67	65	64	63	65	67	67	64	69	68	65	66	63	64	64.7
KONA AIRPORT 68.3	MAX	82	82	82	81	82	82	79	78	80	79	83	83	85	85	86	83	84	83	82	83	82	81	81	81	85	83	83	82	82	82	84	82.3
	MIN	64	64	64	64	63	62	64	64	63	65	67	67	68	67	67	68	67	69	66	67	67	67	67	67	67	69	68	68	71	68	68	66.4
KULANI CAMP 79	MAX	61	60	62		56	60	58	57	64	58	66	70	72	70	65	59	60	58	64	63	66	68	66	67		68	69	68	70	71	68	64.3
	MIN	48	46	45		44	48	42	44	42	42	41	41	48	50	55	52	48	46	48	48	47	46	48	46		50	48	44	48	49	46	46.6
MAUNA KEA BEACH 98	MAX	86	84	66	85	83	84	82	84	84	81	82	84	84	87	89	90	86	63	84	85	84	84	85	86	87	85	84	84	84	85	85	84.7
	MIN	70	69	72	71	69	66	66	64	66	66	68	70	70	73	73	72	73	71	72	70	70	70	72	71	72	73	70	73	71	71	70	70.1
MAUNA LOA SLOPE 08S	MAX	49	47	51	48	48	50	51	50	52	50	49	58	59	56	54	57	58	57	58	59	64	63	63	64	64	62	60	58	57	58	66	56.1
	MIN	32	30	29	34	32	31	32	29	33	33	33	35	39	39	38	40	41	43	43	39	44	45	42	43	44	42	42	44	40	42	46	38.0
MOUNTAIN VIEW 91	MAX	72	73	71	71	74	71	74	77	76	79	80	78	81	82	79	70	68	70	72	79	80	81	81	77	77	82	81	80	81	76	78	76.5
	MIN	58	57	60	60	60	60	54	54	54	53	61	57	58	58	64	62	60	61	62	55	55	58	63	63	64	64	63	62	61	58	59	59.3
NAALEHU 14	MAX	78	79	79	79	79	79	78	78	78	78	82	82	82	85	81	80	80	79	79	80	80	81	81	81	81	81	79	79	82	79	79	79.9
	MIN	63	63	63	64	64	66	65	64	61	61	63	63	67	67	69	68	68	67	67	65	65	68	68	68	66	66	68	68	67	67	67	65.7
OOKALA 223	MAX	78	72	75	78	80	79	79	79	78	80	80	79	81	83	80	72	72	77	77	78	80	78	81	80	80	81	80	80	80	82	82	78.7
	MIN	64	58	62	65	66	66	63	62	63	62	66	65	65	66	68	62	64	67	68	65	65	66	68	67	67	66	67	67	70	70	66	65.4
OPIHIHALE 2 24.1	MAX	74	80	78	80	80	78	73	74	75	77	78	80	81	82	78	76	73	74	76	74	80	75	74	78	77	77	82	82	80	83	82	77.8
	MIN	58	58	59	59	61	63	58	58	57	59	57	59	64	66	65	65	65	63	63	60	61	61	62	64	63	62	62	63	60	61	61	61.2
PAHALA 21	MAX	77	78	78	79	76	78	78	77	77	78	80	81	82	83	78	80	79	74	76	81	79	80	79	81	80	81	79	77	82	75	82	78.9
	MIN	58	59	62	64	65	62	58	59	60	60	63	60	61	65	67	66	65	66	65	60	59	60	64	62	62	65	65	63	66	63	62	62.5
UPOLU POINT USCG 159.2	MAX	81	80	80	80	80	81	81	80	80	81	82	84	84	85	82	82	78	79	79	82	82	82	83	82	82	82	81	82	86	86	84	81.7
	MIN	66	65	65	64	66	60	65	64	65	65	67	71	70	70	69	67	68	68	72	68	68	69	69	65	70	70	69	69	74	69	68	67.6

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.35	.33	.32	.34	.35	.30	.33	.17	.17	.20	.32	.27	.14	.35	.36	.39	.38	-	.22	.29	.30	.22	.32	.32	.26	.30	.34	.32	.30	.30	.20	9.058
	WIND	139	167	204	208	157	87	70	68	69	128	128	160	87	109	154	166	135	96	100	97	77	77	136	166	169	179	141	92	68	79	62	3775
	MAX	86	89	84	86	89	93	91	87	83	84	88	86	91	90	88	87	85	77	84	91	91	92	91	90	87	87	91	93	96	91	91	88.4
	MIN	65	67	66	67	68	68	65	62	63	66	67	67	68	68	66	63	63	65	65	65	65	65	68	70	68	68	70	70	68	68	69	66.5
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.33	.30	.31	.35	.33	.25	.28	.28	.26	.08	.28	.23	.32	.30	.37	.30	.30	.33	.26	.30	.24	.23	.29	.38	.30	.31	.29	.25	.30	.30	.24	8.89
	WIND	41	47	61	63	39	24	20	26	18	16	21	21	44	42	60	51	33	27	25	23	23	20	32	44	48	45	28	29	30	17	17	1035
	MAX	92	90	91	91	93	96	95	96	94	91	91	95	95	95	95	94	92	92	89	94	96	95	94	92	93	92	93	93	99	99	99	93.7
	MIN	65	66	66	66	66	68	69	66	67	66	67	69	67	69	66	64	65	67	65	67	68	68	69	68	69	68	70	71	72	72	71	67.6

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	[illegible]14	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUGAR CO.
ANAHOLA 111	A 0165	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
[illegible]RYDE WOOD STA 985	A 0260	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
[illegible] RESERVOIR [illegible]	0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 111	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 10 6	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1 53	1170	01	KAWAIHAU	1	22 05	159 28	1218					LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1 5	A 2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	01	HANALEI	1	22 09	159 34	690		WI		S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	400		7A			KILAUEA SUG PLTN CO
KANAL HULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOU	1	22 08	159 22	800		7A			LIHUE PLANTATION
KAPAA STABLES 11 4	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 41	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO.
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1 2	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	U S WEATHER BUREAU
[illegible]AHUENA POINT [illegible]	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	0[illegible]	WAIMEA	3	21 5[illegible]	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	[illegible]	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
[illegible]	[illegible]97	[illegible]2	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
[illegible]IHI UPR [illegible]	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6527	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
[illegible]NT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		J	U. S. GEO. SURVEY
[illegible] 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
[illegible] WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
[illegible] WAILUA RIVER 1055	6893	01	LIHUE	2	22 04	159 26	650				J	LIHUE PLTN CO LTD
[illegible] WAINIHA 1119	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
[illegible]CEVILLE RANCH 1117	8165	0[illegible]	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
[illegible] RIDGE [illegible]	8205	0[illegible]	WAIMEA	3	22 [illegible]1	159 42	1660		7A			KEKAHA SUGAR CO LTD
[illegible]HI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
[illegible] RESERVOIR 6 1 4	A 8573	[illegible]2	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
[illegible]TABLE [illegible]	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
[illegible]HIAWA [illegible]	A 8941	[illegible]2	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 9[illegible]	A 8949	02	KOLOA	2	[illegible]1 58	159 31	2100		MO			MC BRYDE SUG CO LTD
WAIAHI LOWER 1 54	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1 52	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
[illegible]IAWA [illegible]	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI [illegible]65	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 57	159 41	20		8A			WAIMEA SUG MILL CO
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
[illegible]HEIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A 0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
[illegible]LETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
[illegible] HEIGHTS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J. L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			EWA PLANTATION CO
[illegible]LAWA SHAFT 771.	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	1384	05	WAIALUA	5	21 33	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
[illegible]ULUA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV [illegible]	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST + GEODETIC
#HONOLULU WBF 703	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
#HONOLULU [illegible] STA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
[illegible] EXP STA [illegible]	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2207	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI [illegible] 777	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 9[illegible]5.1	3220	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 88[illegible]	A 3741	05	WAIALUA	5	21 34	157 59	1180		WI			WAIALUA SUGAR CO. INC.
KAWELA MAUKA 936.3	3825	02	KOOLAUPOKO	1	21 40	158 00	1050				C	HAWAII NATIONAL GUARD
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOLEKOLE DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C + F OFFICER HEOG
LUALUALEI 8 4	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
[illegible]ALE VALLEY WTR TUNNEL	A 5650	04	WAIANAE	4	21 29	158 08	1500		WI			U S NAVY
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LUM
LUNALILO HOME 724.[illegible]	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI [illegible]6	A 5[illegible]66	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 8[illegible].2	A [illegible]782	04	[illegible]AHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	58[illegible]	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA [illegible]2	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS. JOHN H. BEAUMONT
MANOA TUNNEL [illegible] 71[illegible]	613[illegible]	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 77	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM.
NUUANU RES 4 78[illegible]	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 [illegible]A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLAT 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL CITY FENCE 7[illegible]4.1	7933	0[illegible]	EWA	3	21 25	157 58	240				C	JAMES MUMENO
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 7[illegible]9	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.5	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS [illegible] 788	86[illegible]	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 78	87[illegible]	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 [illegible].5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 83[illegible]	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 778	A 9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA [illegible]	92[illegible]8	04	WAIANAE	4	21 29	158 09	1575		WI			CAPITAL INVEST CO
WAIAWA 836	A 9261	[illegible]3	EWA	3	21 28	157 56	800		MO			WAIAHOLE WTR CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 4[illegible]	10	8A	8A			HONOLULU ZOO
WAILUPE RES V. 72[illegible]	A 9495	[illegible]2	HONOLULU	2	21 18	157 45	170		WI			BOARD OF WTR SUPPLY
WAILUPE VLY SCH 7[illegible]3.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO 794	A 9521	01	KOOLAUPOKO	1	21 21	157 44	60		8A			ST DIV WTR + LAND DEV
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE [illegible].1	9780	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6	3046	01	MOLOKAI	1	21 04	156 52	60				C	W. J. CARSTEN
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 [illegible]1	70				C	MOLOKAI GENERAL HOSPITA
[illegible] PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		WK			MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 562	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A 619[illegible]	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL + LIBBY
MOLOKAI AP 5[illegible]4	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH

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ISLAND OF MOLOKAI												
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		TW		C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690	A 5130	01	LAHAINA	1	20 52	157 00	1650		WI		C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI		C	STATE DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 53	156 55	1430		MO			DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI		C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040		WM			DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	U OF MICH MT HKALA OBSY
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM + SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020					KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 25	480		5A			HAWAIIAN COM + SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CURELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM + SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A			KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800		MO			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM + SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		WI			KAUPO RANCH CO.
PAUWELA 490	A 7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500		MO			PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM + SUG CO
PUU PAHI 352	8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM + SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8753	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		WM			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		WI			KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240		MO			KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770		MO			KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		MO			STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	U S WEATHER BUREAU
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUHANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A			SHIGEO MASUYA
KAWAINUI LOWER 193	A 3773	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV. OF FORESTRY
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840		WI			KOHALA DITCH CO LTD
KIOLAKAA A + F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		7A			KOHALA SUGA9 CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 52	155 55	15		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			U S WEATHER BUREAU

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ISLAND OF HAWAII												
AULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L + N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV. OF PARKS
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS 39	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HUALALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600		MO			HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHUA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			HAWAIIAN RANCH CO. INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHUNUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIME 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIAU RANCH CO
ISLAND OF HAWAII												
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440		MO			STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUOKUMAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8552	02	S HILO	2	19 44	155 23	6340		6A			W. H. SHIPMAN, LTD
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400		WI			HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305				C	FEDERAL ELE TRIC CORP
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCD 88.2	9025	02	S HILO	2	19 41	155 8	1050		7A			SHINICHI KANESHIRO
WAIKANONUULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830				C	KAHUA RANCH

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- – No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- \+ And also on an earlier date or dates.
- ++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

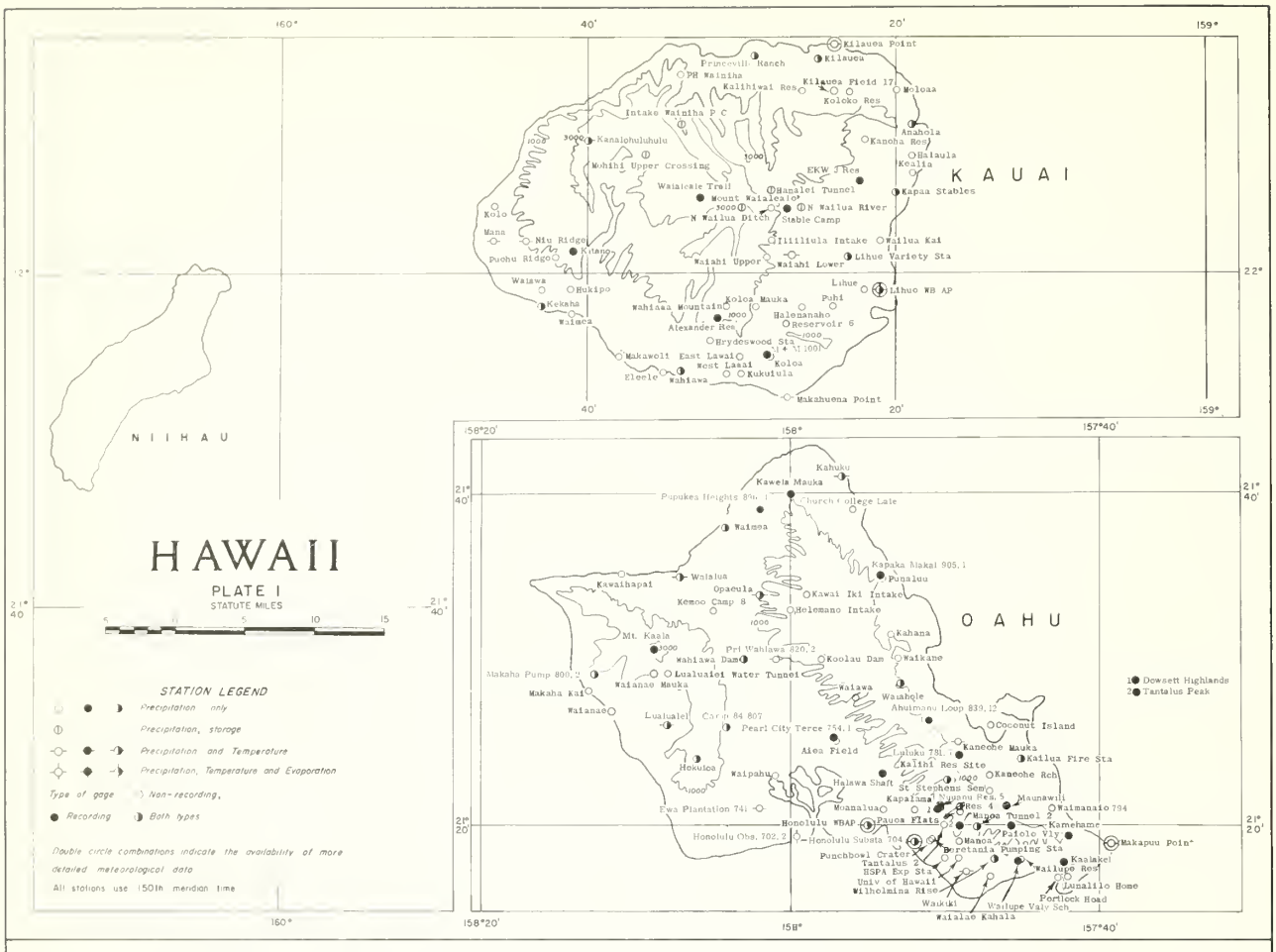
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

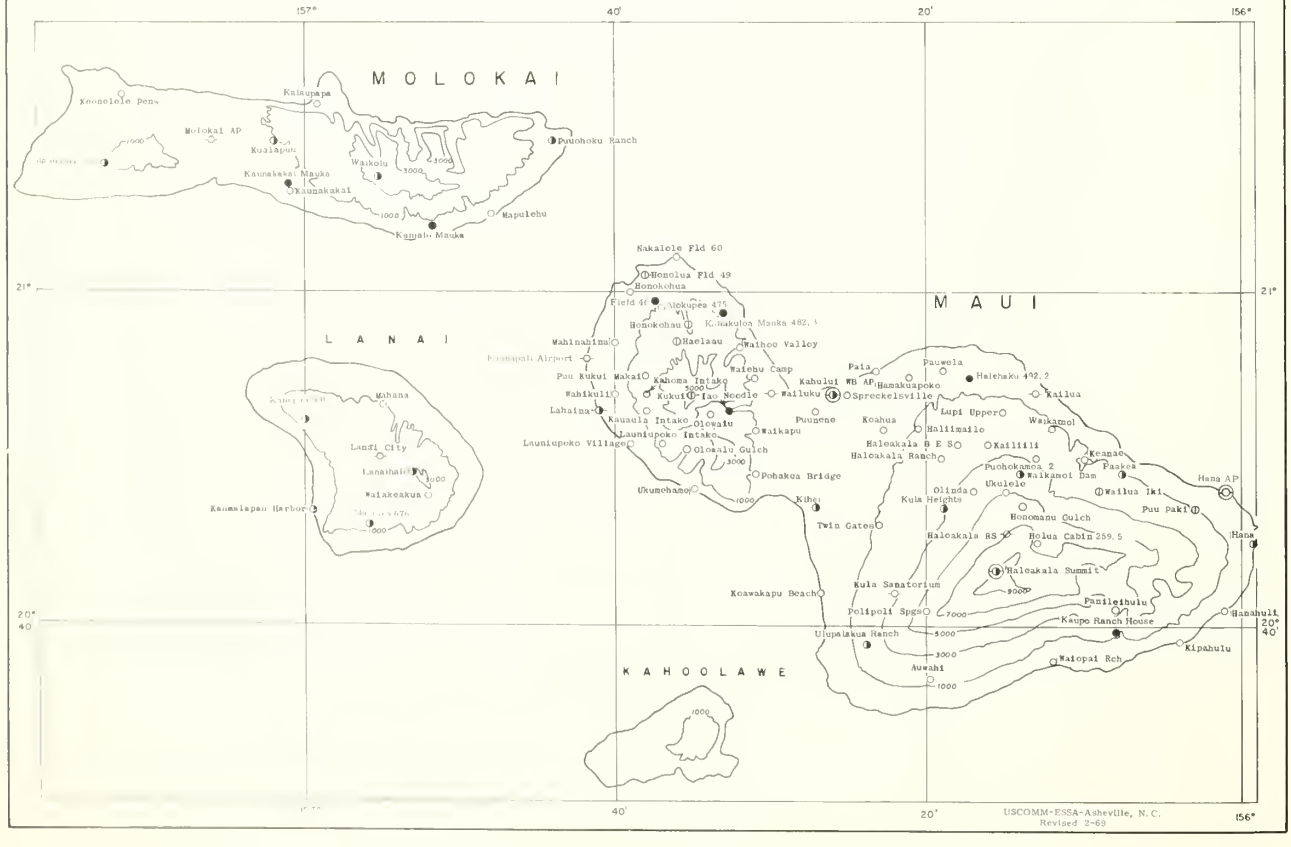
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

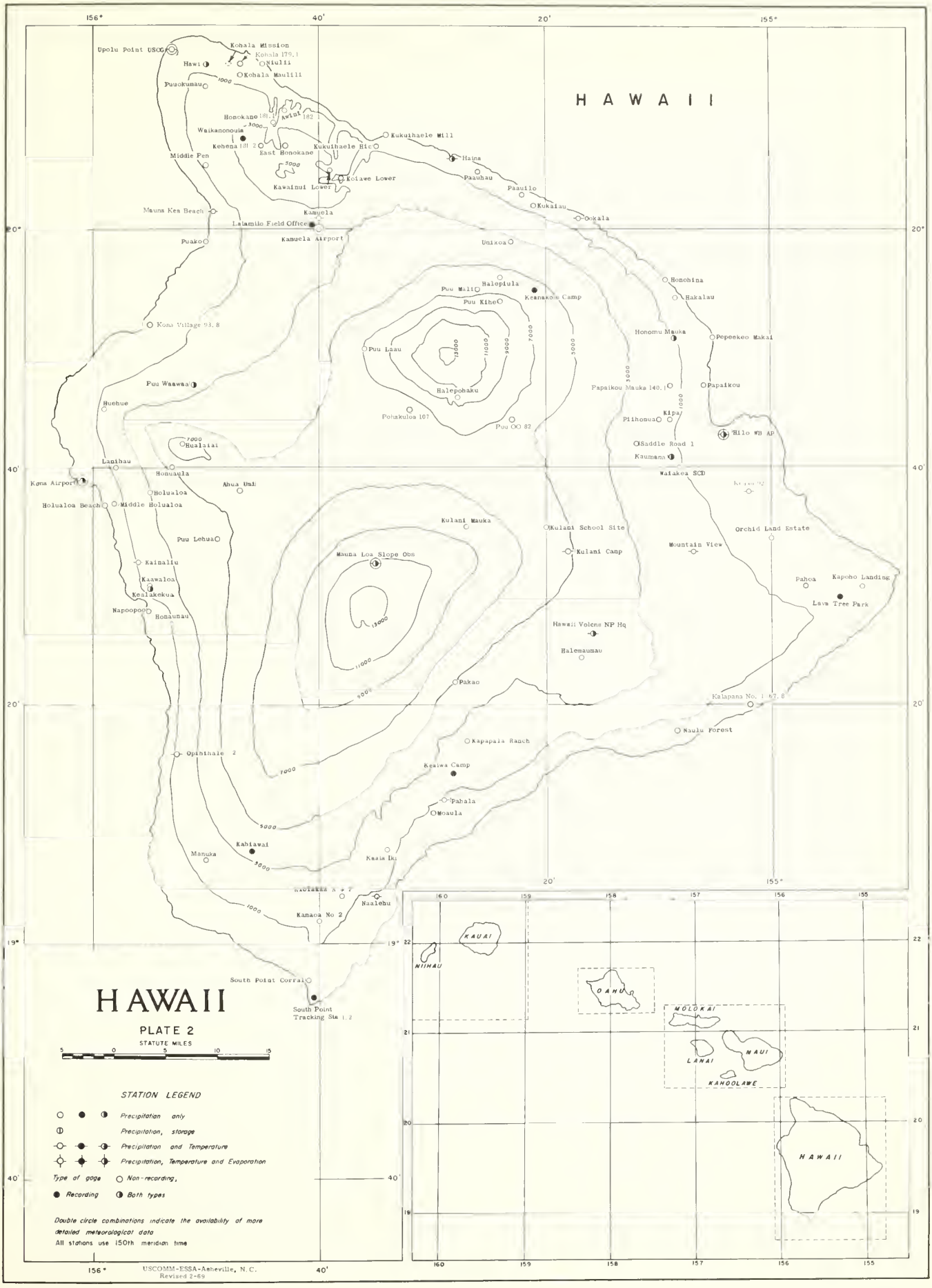
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE- 8/29/69-800


HAWAII
PLATE I
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
1 Dowsett Highlands
2 Tantalus Peak


MOLOKAI
LANAI
MAUI
KAHOOLAWE
USCOMM-ESSA-Asheville, N.C.
Revised 2-69


HAWAII
Upolu Point USCG
Kohala Mission
Kohala 179.1
Hawi
Niulii
Kohala Mauliii
Puuokumau
Honokane 181.1
Kehena 181.2
Waikanonoula
East Honokane
Middle Pen
Kukuihaele Mill
Kukuihaele Hic
Hapa
Koiawe Lower
Kawainui Lower
Paauhau
Paauilo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Hakalau
Puu Mali
Halepiula
Keamakolo Camp
Puu Kihe
Kona Village 93.8
Puu Laau
Halepohaku
Honomu Mauka
Pepeekeo Makai
Papaikou Mauka 140.1
Papaikou
Puu Waawaa
Huehue
Pohakuloa 107
Puu OO 82
Piihonua
Kipa
Hilo WB AP
Saddle Road 1
Kaumana
Hualalai
Lanihau
Honuaula
Waiakea SCD
Kona Airport
Ahua Umi
Holualoa
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Mauna Loa Slope Obs
Kulani Camp
Mountain View
Kainaliu
Kaawaloa
Kealakekua
Napoopoo
Honaunau
Pahoa
Kapoho Landing
Lava Tree Park
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 57.8
Naulu Forest
Opihihale 2
Kapapala Ranch
Kealwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kaala Ikl
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1, 2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
156°
40'
20'
155°
160
159
158
157
156
155
22
21
20
19
PLATE 2
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
USCOMM-ESSA-Asheville, N.C.
Revised 2-69

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
JUNE 1969
Volume 65 No. 6

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CLIMATOLOGICAL DATA

HAWAII
JUNE 1969

Station		Temperature												Precipitation								
										No. of Days							Snow, Sleet			No. of Days		
										Max.		Min.										
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																							
ISLAND OF KAUAI																							
ANAHOLA 1111	A													1.99	.34			.0	0				
KANALOHULUHULU 1075		72.1	52.5M	62.3M		78	30	40	4	0	0	0	0	2.11		.82	25	.0	0		6	1	0
KAPAA STABLES 1104	A													.89		.30	25	.0	0			0	0
KILAUEA FIELD 17 1135	A													4.76	- .29			.0	0				
KILAUEA POINT 1133		83.0	71.5	77.3		92	15	67	9	1	0	0	0	4.98		1.80	29	.0	0		9	3	1
KOLOA 936	A													2.09	- 1.60			.0	0				0
LIHUE WB AP 1020.1	R	84.3	72.3	78.3	1.7	89	15	67	14+	0	0	0	0	.89	- .57	.19	26	.0	0		3	0	0
MANA 1026		87.8	68.2	78.0	1.3	90	30+	65	11	3	0	0	0	.62	- .02	.35	24	.0	0		2	0	0
N WAILUA DITCH 1051	A													7.14				.0	0				
PH WAINIHA 1115														6.98	1.00	1.48	10	.0	0		11	4	3
PUEHU RIDGE 1040														1.24		.38	23	.0	0		4	0	0
WAHIAWA 930	A													.48	- .84	.23	25	.0	0			0	0
WAIAHI LOWER 1054		80.5	64.4	72.5		86	15	59	9+	0	0	0	0	3.03		.54	22	.0	0		10	1	0
WAIMEA 947														.32	.04	.21	25	.0	0		2	0	0
ISLAND				73.7										2.68				.0					
* * *																							
ISLAND OF OAHU																							
HONOLULU DBSERV 702.2														.36		.26	25	.0	0		1	0	0
HONOLULU WBFC 703	R	86.7	71.4	79.1	1.2	90	20	67	13+	1	0	0	0	.23	- .10	.06	27+	.0	0		0	0	0
KAHUKU 912	A	84.4M	70.8M	77.6M	.9					0	0	0	0	1.74	.33			.0	0				0
KANEOHE MAUKA 781		82.7	70.0	76.4	.5	86	15	61	10	0	0	0	0	3.20	.26	1.05	11	.0	0		6	2	1
KOOLAU OAM 833														V12.57		1.10	27	.0	0				2
LUALUALEI 804		87.2	70.2	78.7		90	26	66	9	1	0	0	0	.48		.22	25	.0	0			0	0
MAKAPUU POINT 724		83.4	70.8	77.1		88	10	65	10	0	0	0	0	.63	.13	.32	11	.0	0		2	0	0
NUUANU RES 4 783														4.42	- 2.73	1.20	24	.0	0		11	2	2
OPAEULA 870	A	83.5	64.2	73.9	2.3	88	14	60	12	0	0	0	0	2.12	- .48	.55	11	.0	0			1	0
PALOLO VALLEY 718														8.48	- .31	2.88	10	.0	0		15	4	2
PRI WAHIAWA 820.2	A	85.9M	65.2M	75.6M		89	23+	60	5	0	0	0	0	.83		.22	20	.0	0			0	0
PUNALUU 884	A													2.82				.0	0				0
WAHIAWA OAM 863	A													.90				.0	0			0	0
WAIAHOLE 837	A													7.13	- .87	2.11	11	.0	0				
WAIALUA 847	A	86.1	65.0	75.6	.3	90	6	61	12	1	0	0	0	.47	- .25	.13	16	.0	0		2	0	0
WAIKIKI 717.2		87.2	70.4	78.8		91	17	65	13	1	0	0	0	.84		.60	10	.0	0		2	1	0
WAIPAHU 750	A													.26	- .34	.07	10	.0	0		0	0	0
ISLAND				77.0										2.17				.0					
* * *																							
ISLAND OF MOLOKAI																							
KUALAPUU 534	A													1.17	.50	.96	11	.0	0			1	0
MAPULEHU 542														1.94	- .25	.69	22	.0	0		4	1	0
MAUNALOA 511	A													.50	- .25	.23	11	.0	0			0	0
MOLOKAI AP 524		83.2	71.6	77.4		86	6	68	19+	0	0	0	0	1.68		.85	25	.0	0		2	2	0
ISLAND				77.4										1.32				.0					
* * *																							
ISLAND OF LANAI																							
LANAI CITY 672	A	77.8	63.0	70.4	.3	82	2	60	17+	0	0	0	0	1.67	.25	.61	13	.0	0			1	0
ISLAND				70.4										1.67				.0					
* * *																							
ISLAND OF MAUI																							
HALEAKALA B E S 434	A													2.15	- .63	1.67	11	.0	0		2	1	1
HALEAKALA RS 338		65.8	44.4	55.1		73	4	41	28+	0	0	0	0	.72		.51	11	.0	0		1	1	0
HANA AIRPORT 355		84.2	68.6	76.4		86	26+	65	15	0	0	0	0	3.21		.85	27	.0	0		9	3	0
HONOKOHUA 493	A													1.51	- .17	.86	11	.0	0			1	0
KAANAPALI AIRPORT																							
KAHULUI WB AP 398	R	88.5	67.3	77.9	.7	92	28+	61	5	9	0	0	0	.37	- .19	.14	11	.0	0		2	0	0
KAILUA 446		79.6	65.6	72.6	.7	84	16	61	7	0	0	0	0	4.66	- 2.91	1.45	11	.0	0		9	3	1
KEANAE 346	A													9.70	- 4.07			.0	0				
KIPAHULU 258														3.59	- 4.17	.52	30+	.0	0		11	2	0
KULA SANATORIUM 267		73.3	58.0	65.7	.8	78	30	55	10+	0	0	0	0	1.34	- .35	.35	24	.0	0		5	0	0
LAHAINA 361		86.3	69.0	77.7		88	30+	67	16+	0	0	0	0	.00	- .06	.00		.0	0		0	0	0
PAIA 406														.39	- .80	.21	11	.0	0		1	0	0
WAILUKU 392		86.1M	70.6M	78.4M	2.0	90	15	67	14+	1	0	0	0	.85	.51			.0	0				0
ISLAND				72.0										2.37				.0					
* * *																							
ISLAND OF HAWAII																							
HAINA 214		83.0	64.4	73.7	.7	85	30+	61	8+	0	0	0	0	4.72	2.80	3.40	12	.0	0		4	2	1
HAWAII VOLCNS NP HQ 54		70.9	54.1	62.5	.5	78	19	50	8+	0	0	0	0	1.94	- 2.59	.43	12	.0	0		5	0	0
HILO WB AIRPORT 87	R	85.3	67.0	76.2	1.9	90	24	65	21+	1	0	0	0	2.76	- 4.03	.79	11	.0	0		6	2	0
HUEHUE 92.1	A													3.27	- 1.23			.0	0				
KAINALIU 73.2		77.9	63.9	70.9		81	18+	61	11+	0	0	0	0	3.84	- 4.11	.92	12	.0	0		12	1	0
KAMUELA AIRPORT 191		75.8	54.6	65.2		79	1	49	21	0	0	0	0	.79		.29	13	.0	0		3	0	0

See Reference Notes Following Station Index

Station	Temperature													Precipitation									
									No. of Days									Snow, Sleet			No. of Days		
									Max.		Min.												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below		Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	84.5	65.5	75.0	1.3	88	17+	62	18	0	0	0	0		3.39	- 4.47	.91	30	.0	0		11	2	0
KEALAKEKUA 26.2	78.1	64.1	71.1		81	18+	61	9	0	0	0	0		3.12		.52	28	.0	0		11	1	0
KONA AIRPORT 68.3	83.0	67.1	75.1		85	28+	62	20	0	0	0	0		3.63		1.83	13	.0	0		6	2	1
KUKUIHAELE HIC 199														4.54	1.50	2.10	12	.0	0		6	3	1
KULANI CAMP 79	67.9M	46.3M	57.1M		72	20	41	6	0	0	0	0		2.01		.52	12	.0	0		7	1	0
MAUNA KEA BEACH 98	86.3	72.6	79.5		92	19	70	24+	2	0	0	0		1.07		.96	12	.0	0		1	1	0
PAHALA 21	80.6	62.8	71.7	- .5	84	30	59	11+	0	0	0	0		1.36	.03	.41	12	.0	0		4	0	0
POHAKULOA 107 A														.49		.49	11	.0	0		1	0	0
PUAKŌ 95.1 A														.67		.61	24	.0	0		1	1	0
PUU WAAWAA 94.1 A														1.08	- 1.04	.60	21	.0	0			1	0
UMIKOA 118														4.76	3.06	2.80	12	.0	0		6	2	2
WAIAKEA SCD 88.2														4.73		1.55	11	.0	0		10	3	1
ISLAND			70.7											2.68				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93° ON THE 29+ AT 2 STATIONS

LOWEST TEMPERATURE: 36° ON THE 30+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 21.08 INCHES AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 INCH AT 10 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.65 INCHES ON THE 24TH AT MOUNT WAIALEALE 1047, KAUAI

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
JUNE 1969

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																
ANAHOLA 1111	A	1.99				.09						.10				*	*	1.09	.02	.03	.06		*	*	.09	.24	.02	.08	.04	*	*	.13	
BRYDESWOOD STA 985	A	1.49	*	T	.01	.01						.01				*	*	.06	T		.04		*	*	.19	.04	.35	.11	.20	*	*	.47	
EAST LAWAI 934	A	1.73			.02							T				*	*	T	T	.03	.15	.03	*	*	.18	.24	.40	.03	.14	*	*	.51	
ELEELE 927	A	1.18										T									.03		*	*	.02	T	1.01		.04	*	*	.08	
HALAULA 1110	A	1.12					.03					.15				*	*	.20	.11	.05	.11						.21	.10	.05	*	*	.11	
HALENANAHO 1006	A	2.25			.02				*	*	.03	.04	.08						.07		.23	.06	*	*	.59		.13	.09	.26	*	*	.65	
HUKIPO 945		.72																.43									.29						
ILILILULA INTAKE 1050	A	5.37			.04	.10						.35	.06		.10	*	*	.02	.07	.11	.29	.05	*	*	.71	.12	.98	.45	.77	*	*	1.75	
INTAKE WAINIHA PC 1086	A	9.04			*	*	*	*	*	*	*	3.82	*	*	*	*	*	.06	*	*	*	.79	*	*	2.45	*	*	*	*	*	*	1.92	
KALIHIWAI RES 1131	A	4.48	*	.02		.04						.62	.31	.02	.07	*	*	.55	.74	.04	.21	.01	*	*	.22	.06	.32	.17	.14	*	*	.94	
KANALOHULUHULU 1075		2.11	.02			.05					.05	.17	.04				.16	.30	.03		.04		.13	.02	.12	.02	.82	.02	.02	.03	.02	.05	
KANEHA RESERVOIR 1092	A	4.94		.05			.07					.57	.65	.03	.05	*	*	.10	.78		.25	.11	*	*	.45		.90	.20	.22	*	*	.51	
KAPAA STABLES 1104	A	.89											.03						.02	.02	.17		*	*	.07		.30	.02	.13	*	*	.13	
KEALIA 1112	A	1.04					.02					.10	.03			*	*	.10	.05		.15		*	*	.03		.10	.08	.16	*	*	.22	
KEKAHA 944		.16															.10	.03									.03						
KILAUEA 1134	A	2.68			.01							.41	.06		.14	*	*	.39	.24	.01	.14	.04	*	*	.17	.05	.37	.14		*	*	.51	
KILAUEA FIELD 17 1135	A	4.76	*	.01	.02	.01	.06		*	*	.01	.56	.06		.03	*	*	1.29	.68	.03	.09	.03	*	*	.22	.09	.78	.21	.02	*	*	.56	
KILAUEA POINT 1133		4.98									.50	.05		.16	.11		.40	.07	.03	.03		.02	.03	.04	.30	.80	.15		.02	.02	1.80	.45	
KOLO 1033		1.46															.18	.53							.13		.62						
KOLOA 936	A	2.09	*	.02	.01	.01						.01	.03							.06	.32	.06	*	*	.15	.20	.32	.06	.16	*	*	.68	
KOLOA MAUKA 994	A	2.38							*	*	.05	.04									.25		*	*	.68		.07	.11	.53	*	*	.65	
KOLOKO RES 1137	A	3.91			.01	.01	.07		*	*	.04	.42	.22		.01	*	*	1.05	.57	.02	.02	.04	*	*	.21	.49	.10	.18		*	*	.45	
KUKUIULA 935	A	1.06										T									.20	.01	*	*	.09	.15	.32		.07	*	*	.22	
LIHUE VARIETY STA		1.56	*	.01		.03		.02				.10	.14						.10		.17		*	.24	.19	.02	.10	.12	.14	*	*	.18	
LIHUE 1020	A	1.54			.06	.02	.01		*	*	.02	.07	.07	.02	.01				.01		.11	.12	*	*	.15	.01	.03	.09	.35	*	*	.39	
LIHUE WB AP 1020.1	R	.89	T	.02		T			T	T	.05	.10		T				T	T	.04	.13	.02	.01	.08	.05	.05	.01	.19	.04	.03	.01	.06	
MAKAHUENA POINT 940.1		.89										.07	.02					.03				.24	.01	.06	.09	.16	.09					.12	
MAKAWELI 965	A	.37																				.03		.04	.01	.29							
MANA 1026		.62																.09							.03	.35	.15						
MOHIHI UPR CROSS 1083	A	3.96									.96	.56					.16	.08			.24	.50		.11		.50		.17	.17	.17	.17	.17	
MOLOAA 1145	A	2.37				.01						.11				*	*	1.45	.13	.05	.04	.02	*	*	.03	.19	.02	.17		*	*	.15	
MOUNT WAIALEALE 1047		21.08	.08	.12	.08	.20					1.69	1.06	.16					.16	.04	.47	.39	.39	.12	2.05	1.34	4.85	.28	2.52	1.42	1.30	1.10	1.46	
NIU RIDGE 1035		1.31		.53													.08						.05		.16	.24	.23	.02					
N WAILUA DITCH 1051	A	7.14			.20			.10				.50	.20	.10		*	*	.05	.30	.20	.40	.40	*	*	.63	.40	.50	.50	.96	*	*	1.70	
PH WAINIHA 1115		6.98		.02	.02	.01					.07	1.48	.63	.02	.03			.05	1.08	.02	.32	.05		.04	.19	T	.37	.28	.22	1.42	.34	.32	
PRINCEVILLE RANCH 1117		5.69				.02						.78	.12		.08			.83	1.44	.05	.21	.04		.39	.02		.05	.38	.34	.40	.08	.46	
PUEHU RIDGE 1040		1.24										.07					.09	.03					.14		.38	.01	.23	.03	.26				
PUHI 1013	A	1.71	*	.02	.05				*	*	.02	.03	.21						.13		.13	.10	*	*	.33		.06	.16	.20	*	*	.27	
RESERVOIR 6 1004	A	2.15										.09							.07		.13		*	*	.67	.07	.09	.16	.19	*	*	.68	
WAHIAWA 930	A	.48																			.07		*	*	.04	.01	.23		.01	*	*	.12	
WAHIAWA MOUNTAIN 990	A	6.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.13	
WAIAHI LOWER 1054		3.03				.04						.22	.05						.04	.06	.19	.02	.11	.54	.08	.10	.22	.21	.37	.32	.09	.37	
WAIAHI UPPER 1052		3.97			.01	.07						.28	.10						.05	.04	.21	.02	.12	.46	.06	.07	.20	.30	.65	.67	.13	.43	
WAIAWA 943		.31																.18								.11	.02						
WAILUA KAI 1065	A	1.07					.05					.07	.04								.12		*	*	.09	.04	.40	.04	.18	*	*	.04	
WAIMEA 947		.32																.11									.21						
WEST LAWAI 931	A	1.11														*	*	.02	T		.20	.02	*	*	.10	.25	.23		.05	*	*	.24	
* * * ISLAND OF OAHU																																
AIEA FIELD 625 761	A	1.56			.03							.18	.24								.02	.02		*	.12	.20	.37	.06		*	*	.36	
BERETANIA PUMPING STA		.72			T							.05		.17	T		.04		.01		.02	.02			.03	.14	.03	.13		.07		.05	
CAMP 84 807	A	.62	*	.03	*	*	*	*	*	*	*	.02	.24	*	*	*	*	.02	*	*	.01	*	*	*	.15	*	*	.02	*	*	*	.13	
CHURCH COLLEGE LAIE		2.77										.25					.01				.06	1.05	.05	.55				.25	.20	.10	.05	.20	
COCONUT ISLAND 840.1		3.21										1.20	.48			.01				.40		.50		.13				.24	.12	.02		.11	
EWA PLANTATION 741		.40										.05	.01				.09							.01			.21	.03	T				
HELEMANO INTAKE 881	A	2.73	*	.05															*	*	.05	.08	*	*		.05	*	.21	1.25	*	*	*	1.25	
HOKULOA 725.2	A	1.41	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.65	*	*	*	*	*	*	*	.62	*	*	*	*	*	*	.14	
HONOLULU OBSERV 702.2		.36										.06	T	T													.26	.02		.02		T		
HONOLULU WBFC 703	R	.23		.01	T	T			T		T	.05				T	T			T	T	T		.02	T	.03	T	.06	.06	T		T	
HONOLULU SUBSTA 704		.66										.12				.04		.04							.06	.11	.02	.08	.05	.05	.04	.05	
H S P A EXP STA 707		1.40										.13	.34				.12		.07		.07	.03		.06		.20	.05	.17	.01	*	*	.15	
KAHANA 883	A	11.92			*	*	*	*	*	*	.36	*	*	*	*	*	*	5.00	*	*	*	*	*	*	*	2.56	*	*	*	*	*	4.00	
KAHUKU 912	A	1.74										.34	.20	.01		*	*	.15			.03	.04	*	*	.52		.10	.15	.07	*	*	.13	
KAILUA FIRE STA 791.3		1.89										1.40	.10	T				.07			T	T	T	T	.09		.02	.04	T	.12		.05	
KALIHI RES SITE 777		6.88		.02		.18						2.60	.52			.02	.02				.04	.10	.06	.68		2.22	.06	.24	*	*	*	.12	
KANEOHE MAUKA 781		3.20				.06						.63	1.05	.02			.06			.01	.05	.09	.01	.43	.07			.15	.34	.08		.15	
KANEOHE RANCH 838	A	2.14	*	T	T	.13	T					.45	*	.90					.11	T	.10	.10					.04	.20	.09	.02	*	T	
KAPALAMA 773	A	3.55										.10				*	*	1.34			.25					.70	.08	.10	.08	*	*	.90	
KAWAIHAPAI 841	A	.85										.20	.20			*	*	.08					*	*	.05	.02	.12	.01	.04	*	*	.13	
KAWAI 1KI INTAKE 880.2	A	5.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.50	
KEHOO CAMP 8 855	A	.81	*	.01	.01	.02						.05	.16			*	*	.16				.03	*	*	.05	.04	.08		.11	*	*	.09	
KOOLAU DAM 833		V12.57	*	.06	.12	.35	*	*	*	*	*	.09	.93	*	*	*	.04	*	*	*	*	*	.04	.55	*	.50	.55	.31	1.10	.70	.35	1.05	
LUALUALEI 804		.48	*	.01								.01	.09			*	*	.01					*	*	.01	.01	.22			*	*	.12	
LUALUALEI WTR TUNNEL	A	1.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	1.43	*	*	*	
LUNALILO HOME 724.2		1.10	*	.04																								*	.03				
MAKAHA KAI 796	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.18	-	-	-	-	-	-	
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		.63										.17	.32									.05				.04		.02			.03		
MANOA 712		4.61			.03							.13	1.94				.05			.06	.18	.04		.23	.11	.39	.14	.46	.07	.33	.45	T	
MANOA TUNNEL 2 716		12.38	.02	.02		.32					.02	4.20	1.36			.10	.02		.06	.02	.18	.16	.04	.68	1.60	.36	.10	1.22	.34	.42	.32	.82	
MOANALUA 770		.80			T	.01			*	.01		.03	.20								.02	T		.04		.10	.16	.02	.05	.06	.10		
NUUANU RES 4 783		4.42	.02			.10						1.04	.28			.18	.02		.06	.02	.06	.06	.06	.12	.34	1.20	.06	.22	.30	.10	.04	.14	
NUUANU RESERVOIR 5 775	A	5.33	.04	*	.08	.12						.34	*	1.1		*	*				*	.26	*	*	.43	.89	.20	.34	.35	*	*	.85	
OPAEULA 870	A	2.12			.02	.04						.08	.55			*	.14				.02	.15	*	.10	.02		.45	.06	.07	.27	.14	.01	
PALOLO VALLEY 718		8.48		.12	.02	.12	.02				.02	2.88	1.44			.24	.04		.28	.14	.36	.02	.02	.50	.46	.04	.04	.88	.32	.10	.26	.16	
PAUOA FLATS 784		11.30	.04	.18	.04	.52	.02					2.60	1.06	.02			.12		.08	.02	.36	.26	.28	.74	1.06	.68	.20	.92	.94	.44	.30	.42	
PORTLOCK ROAD 724.4		1.00						.01	.14			.53	.06	.05							.01				.01				.02		.11	.06	
PPI WAHIAWA 820.2	A	.83	*	.01	.02	T						.03	.19									.04	*		.10	.03	.05	.06	.02	*	*	.07	
PUNALUU 884	A	2.82	*	.03	.09	.03						.45	.43								T	.22	*	*	.10	.03	.05	.06	.02	*	*	.07	
PUNCHBOWL CRATER 709	A	1.01		.01		.01							.15				.08	.03	.02		.04	.01		.06		.19	.05	.12		.10	.13	.01	
ST STEPHENS SEM 788		3.58	.02		.03	.16			.04			.52	1.04	.01			.20		.23	T	.04	.06	T	.25	T		.07	.23	.20	.24	.04	.20	
TANTALUS 2 780.5		6.57			.08	.11						.18	1.51	T			.13			.06	.19	.09	.01	.33	.07	1.08	.19	.56	.24	.99	*	.75	
UNIV OF HAWAII 713	A	2.40			T	T						.14	*	1.05	T	*	*	.09	.11	.05	.12	.04	*	*	.07	.27	.10	.19	T	*	*	.17	
WAHIAWA OAM 863	A	.90	*	.27	.02	.03						.01	.18			*	*	.03				.04	*	*	.13	.06	.06		*	*	*	.07	
WAIAHOLE 837	A	7.13			.11	.15			*	*	.16	.69	2.11	.06						.04	.14	.15	*	*	1.13	.05	.21	.35	.92	*	*	.84	
WAIALAE KAMALA 715		.41					T					.12	.18	T			.08		T	T	.03	T			T			.07	.01			T	
WAILUA 847	A	.47			T							.05	.12	T			.06	.13	T		T	T		.03			.03		.01	.04			
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIANAE MAUKA 803	A	2.39	*	*	*	.08	*	*	.04	*	*	*	1.20	*	*	.01	*	*	*	.47	*	*	.40	*	*	*	.17	*	*	.02	*	*	
WAIAWA 836	A	9.86			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.86	
WAIKANE 885	A	8.34			*	*	*	*	*	*	.26	*	*	*	*	*	*	4.30	*	*	*	*	*	*	1.42	*	*	*	*	*	*	*	2.36	
WAIKIKI 717.2		.84			.03							.60	.13	T							T					.03	T	.05	T		T		
WAILUPE RESV. 723.2	A	2.33	*	*	*	*	.04	*	*	*	*	*	*	1.80	*	*	*	*	*	*	.08	*	*	*	*	*	*	.25	*	*	*	.16	
WAIMANALO 794	A	1.53		.03								.40	.57						.08		.09							.36					
WAIMEA 892	A	1.64			T	.03						.14	.48					.04			.02	.06	*	*	.22		.37	.03	T	*	*	.25	
WAIPAHU 750	A	.26										.07	.05										*	*	.04		.03	.03	.03	*	*	.01	
WILHELMINA RISE 721		3.10		.02		.02						1.44	.36						.24	.02	.14			.06	.32	.04	.02	.16	.06	.12	.02	.06	

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII JUNE 1969

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • • ISLAND OF MOLOKAI																															
KALAUPAPA 563	A	.15	*	*	*	.02	*	*	*	*	*	*	*	*	*	*	.04	*	*	*	*	*	*	.09	*	*	*	*	*	*	*	
KAUMAKAKAI 536	A	.00																														
KEONELELE PEHS 551	A	.42											.42																			
KUALAPUU 534	A	1.17			.02								.96				*	.12					*	*	.03			T				
MAPULEHU 542		1.94			.04	.06	.08	.01			.01		.32	T	.06				.01				T	.69	.09	T		.07	.10	.24	.07	.09	
MAUNALOA 511	A	.50											.23			*	.10						.04			.10		.03				
MOLOKAI AP 524		1.68											.83				T							T		T	.85	T				
PUUOHOKU RANCH 542.1		.70								.04		.15	.05	.08			.05				T	.12	T			.02	.03			.09	.05	.02	
WAIKOLU 540	A	3.45		.33								.42						1.87							.26						.57	
• • • ISLAND OF LANAI																															
KANEPUU 690	A	1.15						*	*	*	*	*	*	.29								*	*	*	*	.86						
KAUMALAPAU HARBOR 658	A	.10																												*	*	.09	
LANAI CITY 672	A	1.67		T	.10	.08							.31	.02	.61					T			*	*	.17	.04	.04	.01		*	*	.29	
LANAIHALE 684	A	.53	*	*	*	*	*	*	.18	*	*	*	*	*	*	.20	*	*	*	*	*	*	.02	*	*	*	*	*	*	.13	*	*	
MAHANA 694	A	.56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.56	
MALAUEA 676	A	.00																														
WAIAKEAKUA 685	A	.17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	*	.12	
• • • ISLAND OF MAUI																																
AUKAMI-252	A	.62				.29								.15										.08					.18				
HALEAKALA B E S 434	A	2.15	.02		.04						.02		1.67	.01	.01	.17												.01	.03			.09	
HALEAKALA RANCH 432	A	1.14	*	*	*	*	*	*	*	*	*	*	.79	*	*	*	*	*	*	*	*	*	*	*	*	.32	.03	*	*	*	*	*	
HALEAKALA RS 338		.72											.51	.06	T	.07	T							.01	T	T	T			T		.07	
HALEAKALA SUMMIT 338.4		T											T	T																		
HALIIMAILE 423	A	1.06											.56	.12			.19									.12	.03	.01				.03	
HAMAKUAPOKO 485		1.10			.07	.07					.03		.43	.05			.03											.03	.14		.10	.15	
HANA 354		1.66	*	.05	.07	.04			.03	*	.13	.03	.16	.01	.19	.03			.05	.05		.06		*	.09	.15	.06	.18	.15		*	.13	
HANA AIRPORT 355		3.21	.12	T	.03	.11	T				.08	.04	T	T	.15				.10	T			T	.55	.09	T	.02	.30	.85	.03	.14	.60	
HANAHULI 281		3.59	.17	T	.18	.10	T			T	.08	.02	.14	.47	.02	.30			.15		*	*	*	.31	.14	.56	.25	.18	.03	.07	.05	.37	
HOLUA CABIN 259.5	A	.81							*	*	*	*	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.11	
HONOKOHAU 480	A	16.24	*	*	9.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.64	
HONOKOHUA 493	A	1.51				.05			*	*	.07		.86	.17														.06	.13	*	*	.17	
HONOMANU GULCH 341	A	1.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40	
KAANAPALI AIRPORT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAHOMA INTAKE 374	A	3.81	*	*	*	*	*	*	*	*	1.16	*	*	*	*	*	*	.53	*	*	*	*	*	*	*	.35	*	*	*	*	*	1.77	
KAHULUI WB AP 398	R	.37			.01						.04	.11	.14	*	.05	.01													.01		T	T	
KAILILI 436	A	2.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.48	
KAILUA 446		4.66			.07	.26					.05		1.45	.13	.34							.05	.06	.27	.01	.04	.07	.11	.47	.06	.64	.61	
KAUAULA INTAKE 375	A	.37										*	*	*	*	*	*	.03	*	*	*	*	*	*	.21	*	*	*	*	*	*	.13	
KEAHUA 410		.22											.18	.01		.03										T			T				
KEANAE 346	A	9.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.70	
KEAWAKAPU BEACH 260.2		.00																														
KIHEI 311		.03											.03																			
KIPAHULU 258		3.59		.52	.19	.08					.04		.26			.48				.29		.30			.23		.22	.24	.09	.13		.52	
KULA HEIGHTS 323.2		.47														.40								.02			.05					
KULA SANATORIUM 267		1.34											.03			.25	T							.07	.17	.35	.29	.13		.05			
LAHAINA 361		.00																														
LAUNIUPOKO INTAKE 376	A	1.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.30	
LAUMIUPOKO VILLAGE 372	A	.00																														
LUPI UPPER 442	A	6.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.70	
MAHINAHINA 466	A	.82				.08							.54												.20								
MAKALELE -FLD 60-497	A	1.28	*	*	*	*	*	*	*	*	.19	*	*	*	*	*	*	.66	*	*	*	*	*	*	.13	*	*	*	*	*	*	.30	
OLINDA 332	A	1.42	*	.02	T				*	*	.01		.61	*	.04	*	*	.25	.02				*	*	.16	.13	.01	.05	.01	.02	.01	.08	
OLOWALU 296		.00																														
OLOWALU GULCH 377	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20	
PAAKEA 350		9.37	.04		.20	.36	.06				.14	.11	3.80	.5	.52				.06			.12	.09	.27	.10	.26	.17	.64	.43	.14	.30	1.06	
PAIA 406		.39			.01						.04		.21	.0		.02											.01	.02	.03		T	.02	
PANILEIMULU 259.2	A	.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.60	*	*	*	
PAUWELA 490	A	2.38	*	.08	.04	.16			*	*	.01		1.14	.02														.09	.31	*	*	.53	
POHAKEA BRIDGE 307.2	A	.02	*	*	*	*	*	*	*	*	*	*	.01	*	*	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
POLIPOLI SPRINGS 267.2	A	.52	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.52	
PUOHOKAMOA 2 343	A	9.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.20	
PUU KUKUI MAKAI 472	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20	*	*	*	
PUUNENE 396		.23									.03		.11	.02		.06													.01				
SPRECKELSVILLE 400.2		.22			.01						.01		.18	.02		T													T				
TWIN GATES 261.3	A	.00																														
UKULELE 333	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00	
UKUMEHAME 301	A	.00																														
ULUPALAKUA RANCH 250		.92											.12			.02			.02			.01			.71					.02		.02	
WAIKULI 364	A	.00																														
WAIEHU CAMP 484	A	.97	*	*	*	.11	*	*	*	*	.03	*	.64	.1	*	*	*	*	*	*	*	*	*	*	*	*	*	.06	.03	*	*	*	
WAIHEE VALLEY 482	A	1.36	*	*	*	.16	*	*	*	*	.06	*	.58	.17	*	.05	*	*	*	*	*	*	*	*	*	*	*	.14	.20	*	*	*	
WAIKAMOI 449	A	24.10	*	16.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.70	
WAIKAMOI DAM 336	A	7.92	*	.10	.12	.10	T	T	*	*	.59	.02	3.69	.2	1.01	*	*	.02	.20	T		T	*	*	.28	.02	.01	.44	.20	.04	.10	.71	
WAIKAPU 390	A	.34	*	*	.01	*	*	*	*	*	.02	*	.25	.02	*	.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
WAILUKU 392		.85			.02	.01					.06	*	.51	.07	.07	.08											.02	.01					
WAIOPAI RANCH 256	A	.00																														
• • • ISLAND OF HAWAII																																
AMUA UMI 75	A	.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	
HAIMI 182.1	A	7.31	*	.30	.98	*	*	*	*	*	.21	*	*	.71	4.53	.05	*	*	*	.03	*	*	.06	*	*	.31	*	.08	.05	*	*	*	
EAST MONOKANE 183.2	A	7.23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.23	
HAIMA 214		4.72			.09	.17					.04		.72	3.40	.21									.04				.03				.02	
HAKALAU 142		2.52	.03	.04	.15	.10				.12	.12		.90	.39	.09						.13			.10			.04	.02		.05		.24	
HALEMAUMAU 52	A	1.56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.56	
HALEPIULA 117	A	1.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.11	
HALEPOHAKU 111	A	.09	*	*	*	*	*	*	*	*	*	*	*	.07																		.02	
HAWAII VOLCNS NP HO 54		1.94	.08	.02	.08	.06			.02		T	.02	.02	.43	.10	.01			.07			.05		.01	.19	.07	.05	.06	T	.23	.02	.35	
HAWI 168	A	2.24			.16	.18	.01						.72	.72	.19	*	*	.02	.01				*	*	.05			.03	.07	*	*	.08	
HILO WB AIRPORT 87	R	2.76	T	.14	.20	.08				.07	.10	.04	.79	.05	T				T	T	.03	.09	.03	.06	T	T	T	.08	.04	.06	.32	.58	
HOLUALOA 70	A	6.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.80	*	
HOLUALOA BEACH 68	A	3.99		.09				.39						1.15	.40					.20									1.05			.71	
HONAUNAU 27		3.30		.02	.05	.02	.01	.09	.05	.20	.30	.04	.04	.04	.03	.02	.08	.05	.02	.04	.19	.20	.10	.40	.12	.02	.33	.02	.03	.15	.60	.04	
HONOHINA 137		3.23	.03	.03	.18	.21				.07	.07		1.03	1.11	.08							.09	.03	.03	.04					.05		.18	
HONOKANE 181.1	A	6.45	*	*	.14	.63	.02	*	*	*	.04	*	1.03	3.15	.02	*	*	*	.02	*	*	.02	*	*	.28	*	*	.32	.03	*	*	.73	
HONOMU MAUKA 138		6.43	.22	.03	.08	.28	.01			.05	.11	.02	1.05	2.00	.02			.01	.15	.60		.15		.02	.05			.02	.23	.21		1.12	
HONUAULA 71	A	3.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.10	*	
HUALALAI 72	A	1.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.10	*	
HUEHUE 92.1	A	3.27	*	*	*	1.05	*	*	*	*	*	*	*	*	*	*	*	.60	*	*	*	*	*	*	*	*	*	*	*	*	*	1.62	
KAALA IKI 12	A	2.58	.12	.03	.13	T	.01		.09		.16	.04	.05	.34	.23	.01		.01	.26			.26	.06	.02	.10		.18	.30		.18		T	
KAAWALOA 29	A	2.95	*	.10	.06	.01	.20	.06	*	*	.30	T	*	.30	.18	*	*	.15		.05	.33		*	*	.10	.02	.05	.04	.06	*	*	.94	
KAIMALIU 73.2		3.84		.30	.04	.03	.08	.19	.11	.02	.24	.04	.03	.92	.44	.20				.06	.10	.02	.08	.02	.05	.04	.14	.02	.10	.29	.20	.08	
KALAPANA NO 1 67.8		1.28	.22	*	*	.02	*	*	*	.01	*	*	*	*	*	.11	*	*	*	.01	*	*	*	*	.09	*	.35	.11	*	*	.16	.20	
KAMAOA NO 2 5	A	1.84	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.84	
KAMUELA 192.2		1.18			.08	.16					.02		.15	.26	.11	.21						.02		.06		.01	.03				.07		
KAMUELA AIRPORT 191		.79			.02	.01							.03	.04	.29	.21	T									.12	.07		T	T	T	T	
KAPAPALA RANCH 36	A	1.46	*	*	*	*	*	*	*	.04	.05	*	*	*	*	*	*	*	*	*	*	*	.42	.12	*	*	.71	.06	*	.05	*	*	.01	*
KAPOHO LAHOINO 93.5	A	3.07	*	*	*	*	*	.96	*	*	*	*	*	*	.82	*	*	*	*	*	*	.44	*	*	*	*	*	*	.85	*	*	*	

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		.59	.22	.02	.21	.09	.01				.04	.08	1.18	1.02	.01				.11			.24		.06	.08	.02	.12	.15		.12	.06	.75	
KAWAINUI LOWER 193	A	11.64	*	*	*	*	*	1.72	*	*	*	*	*	*	8.60	*	*	*	*	*	*	.29	*	*	*	*	*	1.03	*	*	*	
KEAAU 92		3.39	.04		.04	.19		.01		.01		.10	.22	.75	.02							.02		.13	.11	.21	.15	.04	.17	.22	.05	.91	
KEALAKEKUA 26.2		3.12		.20	.06	.02	.19	.03	.15	.07	.13	.02		.19	.17	.21		.01	.01	.07	.27	T	.11	.03	.02	.02	.08	.09	.05	.52	.08	.32	
KEHENA 181.2	A	4.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.65	
KIOLAKAA A & F 6	A	3.78	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.78	
KIPA 89.2	A	4.59	.39	.01	.17	.26	.01		T	.01	.12	.08	.31	1.28	.03	T		*	*	*	*	*	*	*	*	*	*	*	*	*	T	.72	
KOHALA 179.1	A	2.42			.12	.26	.02						.47	1.04	.32				.28		.04	.34		.03	.06	.01	.04	.28	.03	.07	T	.06	
KOHALA MAULILI 176	A	3.94			.33	.46	.01						.73	1.63	.23				.01				*	*	.02			.04	.06	*	*	.23	
KOHALA MISSION 175.1		2.83				.18	.32	T					.82	1.01	.24	T			.02					*	.23			.02	.06	*	*	.02	
KOLAWE LOWER 196	A	6.07	*	*	*	*	*	1.15	*	*	*	*	*	*	3.89	*	*	*	*	*	*	.23	*	.05	.02			.03	.07	T	.05	.02	
KONA AIRPORT 68.3		3.63		.07	.04		.02	.54	.01					.30	1.83	.05								*	*	*	*	.80	*	*	*	
KONA VILLAGE 93.8		1.22		.07							*	*	*	.01						.10	.04				.10	.07		.02	.02	.42	T		
KUKAIAU 222		4.68	T		.11	.25					.02	.06	.20	3.81	.08			.03								.05		.01	1.00			.08	
KUKUIHAELE MIC 199		4.54			.09	.40							.40	2.10	.50	.70								.14			.01	.10	.09	.03	.08		.02	
KUKUIHAELE MILL 206	A	4.08			.04	.17			*	*	.01		.30	2.85	.22	*	*	.15				.02	*	*	.20			.12				
KULANI CAMP 79		2.01	.09			.05					.06			.52	.12									.02	.30	.18	.06	.18		.16		.27	
KULANI MAUKA 76	A	.40											.24																				
KULANI SCHOOL SITE 78	A	1.93	*	*	*	*	*	*	.02	*	*	*	*	*	*	.13	*	*	*	*	*	*	.95	*	*	*	*	*	*	.83	.16	*	
LANIHAU 68.2		6.29		.61		.19	.04	.31		.10				1.73	.81					.11	.27		.12		.35	.38	.43	.13	.12	.28	.26	.05	
MANUKA 2	A	1.18					.15		*	*	T		*	.17	.44	*	*	T	.01	.08	.06	.24	*	*	T			.03					
MAUNA KEA BEACH 98		1.07												.96											.02	.03	.06						
MAUNA LOA SLOPE OBS		.02											.02																				
MIOOLE HOLUALOA 68.1	A	3.09	*	.23	*	*	.23	.19	*	*	*	*	.30	1.03	*	*		*	*	.13	*	*	*	*	*	*	*	*	.62	*	*	.36	
MIDDLE PEN 147.1	A	1.55	*	*	*	*	*	*	*	*	*	.07	*	.50	*	*	*	*	*	*	*	*	*	*	*	.75	*	*	.23	*	*		
MOAULA 18	A	1.36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.36	
MOUNTAIN VIEW 91		3.92	.16	.03	.23	.10	.05			.02		.06	.13	.90	.06				.29			.05		.14	.12	.10	.35	.17	.02	.18	.04	.72	
NAALEHU 14	A	1.06	*	.11	.05		.02		*	*	.06		.04	.15	.11	*	*	T	.21			.01	*	*	.02		.20	.01	.01	*	*	.06	
NAPOOPOO 28	A	1.93	*	.09	*	*	*	*	*	*	.47	*	*	*	*	*	*	.24	*	*	*	*	*	*	.37	*	*	*	*	*	*	.76	
NAULU FOREST 38.6		.77	.15	*	*	.02					*	*	*	*	*	.22	.02	*	*	*	*	*	*	*	.13	*	.08		.01	*	.03	.11	
NIULII 179	A	2.93			.32	.28							.65	1.05	.38													.05	.08	*	*	.12	
OOKALA 223		3.98			.15	.20					.03	.35	.07	3.05	.03			.01				.01							.01			.04	
OPIHIHALE 2 24.1		4.73		.02		1.80	.01	.01	.08	.03	T		.22	.16	.04	T	.02	.08	.06	.04	.27	T	.01	.86	T	.90	.04	.01	.05	T	.02	T	
ORCHID LAND EST 91.5	A	3.93	*	*	*	*	*	1.50	*	*	*	*	*	*	.72	*	*	*	.06	.04	*	.30	*	*	*	*	*	*	1.41	*	*	*	
PAAUHAU 217		4.01			.07	.07					.02		.56	3.08	.13	.05								.02								.01	
PAAUILO 221		4.24	T		.09	.13						.03	.15	3.70	.07			.01										.06			T	
PAHALA 21		1.36			.12						.26	.03		.41	.05	.22		.01	.06				.01						.07			
PAHOA 65		4.32	.14		.22	.20	.12	.09		.09			.12	.31	.22				.12	.15	.12	.19		.08	.06	.34	.06	.29	.12	.22	.05	.91	
PAKAO 37	A	.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.07	*	*	.15	*	*	*	*	.58	
PAPAIKOU 144.1		2.65	.08	.01	.14	.19				T	.05	.12	.06	1.13	.03										.04	.02			.11	.10	.03	.47	
PAPAIKOU MAUKA 140.1		5.70	.24	.01	.17	.38																											
PEPEEKEO MAKAI 144		3.41	.13	.01	.13	.12	.01			.09	.08	.08	.38	2.47	.05				.10			.17		.02	.02		.03	.20	.03	.15	.08	.95	
PIIHONUA 89	A	5.20	*	*	*	*	*	*	*	*	.10	.01	.56	.97	.34							.07		.24				.03	.09	.09		.51	
POHAKULOA 107	A	.49											.49																		5.20	
PUAKO 95.1	A	.67												.02											.04	.61							
PUU KIHE 120	A	.83	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.83	
PUU LAAU 102.1	A	.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.90	
PUU LEHUA 73	A	1.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40	
PUU MALI 113	A	.67	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.67	
PUUOKUMAU 167	A	3.49			.35	.49	.01						.81	1.37	.05	*	*	.03					*	*	.19			.02	.03	*	*	.14	
PUU OO 82		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUU WAAWAA 94.1	A	1.08												.12																			
SADDLE ROAD 1 84	A	5.40	*	*	*	*	*	2.20	*	*	*	*	*	*	1.20	*	*	*	*	*	.60	*	*	*	.18	.07			.11				
SOUTH POINT CORRAL 3	A	.44	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40	*	*	*		
UMIKOA 118		4.76		.02	.10								1.21	2.80		.19					.01						.19		.21	.02	.01		
UPOLU POINT USCG 159.2		1.57			.09	.07							.52	.70	T									.08	.06					.05	T		
WAIAKEA SCD 88.2		4.73	.18	.07	.33	.12	.08				.05	.04	1.55	.70					.12			.14		.05	.04	.04	.24	.05	.07	.24		.57	

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	150TH MERIDIAN TIME 2 AM	8 AM	2 PM	8 PM	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	14	1.7	7.1	20	E	28	89	71	63	82	7	11	4	2	0	0	24	66	6.4
HONOLULU, OAHU, WBFC	5	8.5	11.9	25	E	30+	80	70	55	71	13	6	0	0	0	0	19	68	4.5
KAHULUI, MAUI, WB AIRPORT	5	8.9	11.3	27	E	30+	80	68	54	73	2	5	2	0	0	0	9	80	3.8
LIHUE, KAUAI, WB AIRPORT	6	7.0	10.2	22	SW	14	80	76	66	74	7	13	3	0	0	0	23	57	5.8

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	70	70	73	75	72	73	72	69	74	66	71	71	73	74	72	70	69	74	72	74	71	75	73	74	69	70	73	73	74	78		72.1
	MIN	47	53	57	40	44	43	45	45	54	56		49	52	54	57	56	55	54	54	53	52	57	54	54	52	56	55	59	56	60		52.5
KILAUEA POINT 1133	MAX	83	84	83	82	82	81	85	84	80	81	80	84	83	87	92	81	82	82	86	85	81	82	80	82	82	84	85	82	83	82		83.0
	MIN	72	73	69	72	70	70	72	72	67	70	70	69	70	73	70	74	71	74	73	74	74	74	71	74	70	74	70	70	70	72		71.5
LIHUE WB AP 1020.1	MAX	84	84	84	84	84	84	85	84	83	80	81	82	83	87	89	84	84	83	84	86	86	86	86	84	86	85	83	85	85	85		84.3
	MIN	69	75	76	72	69	69	69	67	70	72	72	67	68	67	69	69	74	75	74	75	76	75	74	73	76	75	75	77	75	75		72.3
MAKAHUENA POINT 940.1	MAX	88	88	85	85	86	88	86	88	85	81	82	88	83	90	91	93	85	84	82	86	86	90	86	88	88	87	85	84	87	84		86.3
	MIN	69	74	75	73	70	69	74	69	69	74	70	70	70	68	71	71	72	70	71	71	74	74	74	76	74	71	72	71	70	74		71.7
MANA 1026	MAX	89	87	89	88	88	89	89	88	88	84	85	88	86	87	88	90	89	89	90	89	89	88	86	87	83	85	88	88	89	90		87.8
	MIN	67	67	67	67	66	67	67	66	66	70	65	68	70	70	69	69	69	69	69	69	69	68	68	69	68	68	69	70	69	70		68.2
NIU RIDGE 1035	MAX	82	81	80	82	82	82	83	80	81	80	81	80	82	81	82	82	83	83	82	83	82	79	78	78	78	74	80	83	85	84		81.1
	MIN	62	62	61	63	64	63	65	64	65	62	62	61	61	60	60	62	60	63	62	66	62	60	62	62	62	62	61	62	64	63		62.3
WAIAHI LOWER 1054	MAX	80	80	79	79	81	81	80	80	79	80	76	79	80	85	86	85	78	82	80	81	84	82	80	80	80	80	78	80	80	80		80.5
	MIN	61	65	67	62	60	60	59	60	59	66	63	60	61	60	61	62	68	69	67	66	65	67	66	68	67	67	68	69	70	70		64.4
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	84	84	85	86	86	86	85	87	86	81	84	83	86	86	86	85	88	87	87	87	86	86	86	85	86	86	86	86	86	87		85.6
	MIN	65	66	69	68	63	65	65	64	65	67	69	65	64	66	69	66	68	68	72	67	67	71	68	70	67	71	69	70	69	72		67.5
HONOLULU WBFC 703	MAX	86	85	86	86	88	88	85	88	87	81	85	83	83	85	85	86	89	89	87	90	88	88	88	86	89	88	87	88	89	88		86.7
	MIN	70	73	73	72	67	68	70	69	72	68	70	67	67	70	72	70	71	75	75	71	72	72	74	72	70	72	74	75	75	75		71.4
HONOLULU SUBSTA 704	MAX		81	82	83	84								79			82	82		82	85	86	83	85	85	85	85	83	83	84	84		
	MIN			73	73	71	71											72		73	73	74	74	73	74	73	72	74	75	75	75		
KAHUKU 912	MAX		86	83	83	84	84			85	83	83	81	82			91	83	86	85	84			86	85	85	85	84			85		84.4
	MIN		68	73	73	68	70			70	68	68	70	66			67	72	75	73	70			72	75	72	72	72			72		70.8
KANEOHE MAUKA 781	MAX	84	84	81	83	82	82	83	81	83	82	76	78	82	82	86	85	84	84	83	83	83	85	84	84	82	84	83	84	82	83		82.7
	MIN	69	69	70	72	69	68	68	71	72	61	65	67	69	69	74	70	68	73	72	70	71	71	72	75	70	70	69	70	73	73		70.0
LUALUALEI 804	MAX	86	86	88	87	88	89	86	88	87	85	81	86	86	88	84	88	86	88	89	87	88	88	88	89	86	90	88	88	88	89		87.2
	MIN	68	67	70	71	67	69	68	70	66	69	71	68	67	68	71	70	69	71	75	69	70	72	71	74	69	74	72	74	74	73		70.2
MAKAPUU POINT 724	MAX	86	83	83	79	80	86	84	86	81	88	84	79	83	86	86	85	85	82	86	82	82	82	81	87	86	81	86	83	79	81		83.4
	MIN	73	70	70	71	68	70	72	72	72	65	70	70	70	71	70	71	74	69	71	71	72	70	67	73	73	71	72	73	71	73		70.8
MAPEULA 870	MAX	84	84	79	83	82	85	83	86	85	85	74	80	81	88	84	82	86	87	84	86	86	87	85	84	81	83	84	81	83	83		83.5
	MIN	64	64	65	66	61	62	62	65	64	65	64	60	61	63	63	65	63	64	64	64	65	66	68	64	64	63	64	67	68	69		64.2
PRI WAHIAWA 820.2	MAX	89	88	85	84	85	88			87	86	79	82	83	84	84	86	86	89	87	86	88	88	89	88	82	88	86	86	86	86		85.9
	MIN	67	62	66	68	60	62			62	65	65	61	62	62	69	63	65	65	68	66	64	69	65	67	65	66	67	69	68	67		65.2
WAIALUA 847	MAX	87	88	85	85	86	90	88	86	86	84	77	81	83	86	89	88	83	88	87	88	88	87	88	88	86	87	87	86	85	85		86.1
	MIN	64	66	66	68	62	62	62	63	66	63	67	61	62	64	66	70	64	64	66	65	65	65	67	66	65	62	66	67	69	66		65.0
WAIKIKI 717.2	MAX	87	87	85	85	86	87	88	86	87	88	81	84	84	87	88	89	91	89	88	88	88	88	87	88	88	88	88	89	88	88		87.2
	MIN	68	72	74	72	67	66	69	67	68	69	70	66	65	68	70	68	71	74	74	69	72	72	74	72	70	72	72	75	73	72		70.4
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	84	84	82	82	83	86	83	84	83	82	79	82	79	81	84	84	85	84	84	83	85	83	84	85	83	84	83	84	83	83		83.2
	MIN	71	71	74	71	69	68	69	73	73	73	73	68	69	69	69	75	74	76	68	70	70	75	76	72	72	69	70	70	75	75		71.6
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	76	82	80	77	76	80	76	76	79	77	75	74	78	76	79	81	80	79	79	78	78	77	79	80	78	75	78	76	77	79		77.8
	MIN	65	62	65	64	63	64	63	60	60	63	63	63	65	64	64	62	60	62	62	62	64	67	61	61	61	65	62	65	66	62		63.0
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	65	67	70	73	71	66	64	65	62	66	63	62	64	67	65	65	65	66	69	68	64	66	68	63	62	64	65	64	68	67		65.8
	MIN	45	46	53	45	43	45	41	45	41	45	47	42	41	44	42	46	44	44	45	44	43	50	43	42	41	41	41	41	52	51		44.4
HALEAKALA SUMMIT 338.4	MAX		63	60	61	60	62			65	61	61	60	63			66	65	63	65	65			63	60	60	58	63			62		62.2
	MIN		54	51	45	45	44			43	43	39	42	44			42	44	49	46	46			43	40	44	45	43			40		44.4
KAHULUI AIRPORT 355	MAX	84	84	83	81	83	83	84	85	84	83	80	81	80	85	86	86	86	85	86	86	86	86	84	86	86	86	85	85	84	83		84.2
	MIN	71	70	69	69	66	66	66	66	67	67	67	67	69	67	65	66	72	69	68	69	69	70	71	72	70	69	69	69	71	71		68.6
KAANAPALI AIRPORT	MAX																																
	MIN																																
KAHULUI WB AP 398	MAX	92	90	86	88	87	90	89	87	86	85	82	86	86	88	88	87	89	92	88	91	89	89	90	91	88	89	91	92	89	89		88.5
	MIN	66	64	70	70	61	62	62	62	69	64	70	71	70	68	70	65	68	68	63	68	65	69	65	67	67	72	71	66	72	74		67.3
KAILUA 446	MAX	79	80	79	76	79	79	80	80	80	79	78	73	78	80	81	84	81	81	81	81	81	81	81	80	80	80	80	80	80	77		79.6
	MIN	64	68	64	66	62	62	61	65	64	64	64	64	64	64	65	64	66	69	66	67	67	67	67	68	68	67	66	69	68	69		65.6
KEAWAKAPU BEACH 260.2	MAX	85	90	89	89	89	87	89		87	87	84	87	87	87		87	85	89	91	87	90	89	89	89	87	86	90	89	93	92		88.2
	MIN	67	64	65	64	62	63	64		63	62	69	69	70	71		65	69	64	65	65	65	68	65	68	68	66	65	66	66	68		65.9
KULA SANATORIUM 267	MAX	72	72	72	74	75	75	75	72	73	75	72	69	71	70	73	77	75	77	76	74	74	73	69	72	71	72	75	71	76	78		73.3
	MIN	58	58	57	58	55	55	56	59	59	55	56	59	60	60	57	58	59	59	58	58	59	59	57	58	59	60	59	59	59	60		58.0
LAHAINA 361	MAX	85	87	86	85	85	84	85	87	89	86	87	89	85	84	85	85	86	87	87	87	87	88	87	88	88	86	87	87	88	88		86.3
	MIN	69	69	69	69	67	67	67	67	68	67	69	68	70	70	70	67	70	69	69	68	69	71	71	70	69	70	70	70	70	72		69.0

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII JUNE 1969

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
WAILUKU 392	MAX	88	87	84	84	84	85	84	85	86		84	83	81	84	90	88	88	88	87	88	87	87	88	87	88	87	88	88	84	85		86.1
	MIN	69	70	70	70	69	68	67	67	69		76	70	69	67	68	69	71	72	72	72	73	72	72	71	72	73	71	72	74			70.6
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	82	83	80	81	82	83	84	83	83	84	83	73	80	84	84	84	84	83	84	83	84	84	84	84	84	84	85	84	84	85		83.0
	MIN	61	62	64	61	62	61	61	61	62	65	65	66	63	64	65	66	69	68	63	64	66	67	67	65	64	65	66	65	66	69		64.4
HAWAII VOLCNS NP HO 54	MAX	72	69	70	70	68	77	71	72	70	66	72	64	69	68	75	74	76	70	78	72	72	73	66	69	71	71	69	71	70	71		70.9
	MIN	53	54	53	54	51	51	50	50	52	51	51	59	55	52	56	53	58	55	53	54	55	57	55	55	57	56	55	55	57	56		54.1
HILO W8 AIRPORT 87	MAX	85	83	82	83	86	85	86	85	83	84	80	83	87	87	87	87	86	85	85	87	88	86	86	90	87	85	87	86	85	84		85.3
	MIN	66	68	70	69	65	65	65	67	65	65	69	69	68	66	65	65	68	67	66	67	65	70	67	67	67	67	69	68	67	68		67.0
KAINALIU 73.2	MAX	77	76	77	78	78	76	76	77	77	79	77	78	70	76	79	80	81	81	79	80	79	79	79	77	79	80	78	79	77	79		77.9
	MIN	62	63	65	63	66	65	63	63	61	61	61	65	64	63	62	64	65	67	67	64	64	63	65	64	63	65	64	63	66	66		63.9
KAMUELA 192.2	MAX	80	78	76	70	72	76	76	77	75	73	73	72	75	75	79	80	75	78	76	75	75	80	80	77	80	74	75	76	75	74		75.9
	MIN	50	54	56	55	54	56	51	54	56	58	58	57	55	58	53	56	60	60	57	57	58	57	60	54	57	60	58	58	60	60		56.6
KAMUELA AIRPORT 191	MAX	79	77	74	70	74	75	78	78	74	74	74	71	73	76	77	76	75	77	76	77	78	78	78	77	78	76	76	76	76	76		75.8
	MIN	52	59	58	50	52	51	58	50	57	52	50	60	54	50	53	58	58	50	50	59	49	58	57	59	50	59	54	54	54	62		54.6
KEAAU 92	MAX	84	84	83	82	82	84	84	84	84	82	84	78	81	88	88	88	88	86	85	85	87	87	87	82	86	81	85	85	85	85		84.5
	MIN	63	63	66	67	64	65	64	64	64	64	67	68	67	64	64	64	64	62	65	67	66	66	66	67	67	68	67	67	67	67		65.5
KEALAKEKUA 26.2	MAX	78	77	77	78	78	78	77	77	77	78	78	79	73	76	79	80	81	81	79	80	78	77	78	78	79	80	77	78	78	80		78.1
	MIN	63	63	64	63	65	66	63	63	61	62	63	66	63	63	63	64	64	67	67	65	64	64	65	64	64	64	65	64	65	66		64.1
KOHALA MISSION 175.1	MAX	82	81	81	78	80	81	81	82	82	82	81	73	78	81	83	83	82	82	82	82	82	83	81	82	82	83	82	82	82	82		81.3
	MIN	64	67	67	67	64	63	64	65	67	66	67	68	66	69	66	67	69	71	69	67	70	69	70	66	68	69	68	68	69	71		67.4
KONA AIRPORT 68.3	MAX	83	83	83	82	82	82	84	84	83	82	82	82	74	84	84	84	85	83	83	85	84	84	83	84	84	83	82	85	84	82		83.0
	MIN	68	68	70	72	67	66	67	66	67	65	65	65	67	66	66	66	66	66	66	62	66	67	66	67	71	71	71	67	67	69		67.1
KULANI CAMP 79	MAX	70	67	68	68	66	68	67	69	67	62	68		68	70		71	70	68	68	72		69	68	68	66	68	68	66	66	68		67.9
	MIN	43	47	48	48	42	41	43	43	46	48	45		46	43		44	48	48	43	48		45	48	48	48	50	51	50	45	52		46.3
MAUNA KEA BEACH 98	MAX	85	85	87	91	86	86	86	84	87	87	89	86	81	84	84	85	86	88	92	86	86	87	86	85	87	87	86	86	86	87		86.3
	MIN	71	72	72	73	71	73	70	70	73	70	73	71	71	75	73	73	74	74	73	72	73	76	72	70	71	75	71	74	74	77		72.6
MAUNA LOA SLOPE 08S	MAX	62	61	59	60	58	58	56	56	57	58	59	56	58	59	58	57	63	63	58	59	60	58	57	56	58	57	57	61	53	51		58.1
	MIN	44	45	43	40	40	41	40	39	36	39	41	39	40	40	41	39	43	43	41	42	41	42	39	39	42	46	44	41	37	36		40.8
MOUNTAIN VIEW 91	MAX	79	80	77	78	76	81	83	81	83	79	81	73	78	80	81	82	86	81	82	79	83	81	82	78	79	80	79	81	80	75		79.9
	MIN	59	62	62	61	59	58	59	57	61	56	57	64	63	59	61	59	58	63	58	58	58	65	60	60	63	61	62	62	64	64		60.4
NAALEHU 14	MAX	82	82	81	81	79	81	81	82	82	81	82	80	81	81	83	83	83	83	84	83	83	84	84	82	83	84	82	82	83	83		82.2
	MIN	67	67	65	66	65	67	67	67	67	64	69	67	68	68	64	64	68	70	68	69	69	68	68	69	69	69	70	70	69	69		67.6
OOKALA 223	MAX	80	82	80	79	82	81	82	82	82	80	81	81	77	82	81	82	82	82	84	82	83	84	83	85	84	82	82	83	85	83		81.9
	MIN	68	68	67	66	67	70	62	75	67	65	66	67	66	64	64	69	69	71	69	70	70	70	70	71	71	70	72	71	71	71		68.6
OPIHIHALE 2 24.1	MAX	78	79	81	84	78	80	80	79	78	79	75	72	76	79	78	77	77	79	80	77	78	76	78	80	77	79	79	82	84	86		78.8
	MIN	66	63	62	63	66	63	61	61	60	61	63	63	60	59	61	62	64	63	63	62	63	66	61	63	63	65	62	62	62	64		62.6
PAHALA 21	MAX	82	79	80	81	78	80	81	81	81	78	81	76	77	78	81	82	83	82	83	81	83	72	82	80	82	83	82	83	83	84		80.6
	MIN	64	64	62	62	61	60	61	60	61	59	59	65	67	60	62	61	62	64	64	62	62	63	64	66	64	65	65	63	64	68		62.8
UPOLU POINT USCG 159.2	MAX	86	86	83	80	83	84	84	84	83	84	84	79	82	85	85	85	84	85	85	85	84	86	85	86	86	84	84	84	85	85		84.2
	MIN	69	70	69	69	67	69	67	69	68	70	68	69	71	71	73	74	71	73	69	70	71	71	71	70	69	71	70	72	70	70		70.0

EVAPORATION AND WIND

Station		Day Of Month 1	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE W8 AP 1020.1	EVAP	.31	.27	.35	.35	.36	.36	.34	.19	.30	.26	.20	.25	.20	.24	.36	.36	.25	.32	.24	.33	.39	.40	.35	.36	.35	.39	.45	.27	.36	.32		9.48
	WIND	145	110	158	158	102	74	90	66	102	164	164	105	43	*	116	94	98	107	123	131	120	119	141	153	102	149	163	172	178	181		3628
	MAX	92	95	90	89	92	93	92	89	90	85	82	79	85	88	92	93	89	93	88	92	93	95	92	92	92	94	91	86	91	92		90.2
	MIN	67	68	69	69	67	67	66	65	66	68	67	64	65	66	67	68	69	72	71	71	71	71	71	71	69	70	70	71	72	72		68.7
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.29	.26	.26	.32	.27	.30	.25	.30	.23	.24	.24	.19	.23	.30	.32	.31	.28	.28	.33	.30	.30	.30	.30	.30	.11	.27	.28	.24	.30	.28		8.18
	WIND	19	21	37	35	25	30	25	19	24	35	40	34	21	26	37	30	21	28	37	29	22	31	27	33	18	29	27	27	36	42		865
	MAX	99	95	90	94	92	95	92	94	91	93	88	95	93	98	97	98	97	95	96	95	94	97	97	92	97	94	95	93	95	93		94.5
	MIN	71	69	69	70	67	68	68	69	67	70	68	67	69	70	72	71	70	70	72	71	70	72	70	71	69	70	71	71	71	71		69.8

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
JUNE 1968
DELAYED DATA

Station	Total	Day of Month																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • •																																
JANUARY 1969																																
MOUNT WAIALEALE 1047	37.15	2.99	.31	.12	.39	1.14	.71	.04	.20	.04				.35		.16					.31	.04	.31	.08					.24	3.54	6.14	20.04
• • •																																
FEBRUARY 1969																																
MOUNT WAIALEALE 1047	-	19.72	6.97	1.22	.43	4.17	.87			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

CORRECTIONS

DATE	TABLE	STATION	CORRECTIONS
ISLAND OF MAUI			
MARCH 1968	CLIMATOLOGICAL DATA	WAILUKU 392	AVERAGE MINIMUM TEMPERATURE 67.0, AVERAGE TEMPERATURE 73.1, DEPARTURE FROM NORMAL 1.6
MARCH 1968	DAILY TEMPERATURE	WAILUKU 392	MINIMUM TEMPERATURE ON 20TH 65; AVERAGE MINIMUM TEMPERATURE 67.0
ISLAND OF HAWAII			
APRIL 1968	CLIMATOLOGICAL DATA	KULANI CAMP 79	AVERAGE MAXIMUM TEMPERATURE 63.6M, AVERAGE TEMPERATURE 55.8M, HIGHEST TEMPERATURE 71, DATE 6TH
APRIL 1968	DAILY TEMPERATURE	KULANI CAMP 79	MAXIMUM TEMPERATURE ON 30TH MISSING, AVERAGE MAXIMUM TEMPERATURE 63.6
JUNE 1968 THROUGH APRIL 1969	ALL TABLES	PUU DD 82	DELETE ALL DATA FROM JUNE 1968 THROUGH APRIL 1969

See Reference Notes Following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI													
ALEXANDER RESV. 983		0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUGAR CO.
ANAHOLA 1111	A	0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1		0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053		1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690		WI		S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A	2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU P. S.
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1		4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO.
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1		5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M + M 1001		6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLUAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055		6893	01	LIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PM WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100		MO			MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947		9629	0	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A	0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C	J. L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9A	7A			EWA PLANTATION CO
HALAWA SHAFT 771.2		0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST + GEODETIC
HONOLULU WBFO 703	R	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707		2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6		2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7		3056	01	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WAIALUA	5	21 34	157 59	1180		WI			WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3		3825	02	KOOLAUPOKO	1	21 40	158 00	1050				C	HAWAII NATIONAL GUARD
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C + F OFFICER HEOG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 08	1500		WI		C	U S NAVY
LULUKU 781.7		5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LUM
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A	5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650		MID		C	BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4025					FEDERAL AVIATION ADM.
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A			WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1		7933	03	EWA	3	21 25	157 58	240				C	JAMES MUMENO
PORTLUCK ROAD 724.4		8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO. JR.
PRI WAHIAWA 820.2	A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788		8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780		8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798	A	9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 803	A	9238	04	WAIANAE	4	21 29	158 09	1575		WI			CAPITAL INVEST CO
WAIAWA 836	A	9261	03	EWA	3	21 28	157 56	800		MO			WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE RESV. 723.2	A	9495	02	HONOLULU	2	21 18	157 45	170		WI			BOARD OF WTR SUPPLY
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO 794	A	9521	01	KOOLAUPOKO	1	21 21	157 44	60		8A			ST DIV WTR + LAND DEV
WAIMEA 892	A	9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721		9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6		3046	01	MOLOKAI	1	21 04	156 52	60				C	W. J. CARSTEN
KAUNAKAKAI 536	A	3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSPITA
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560		WK			MOLOKAI RANCH. LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A			DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL + LIBBY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUUOHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
ISLAND OF MOLOKAI													
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550		WI		C	MOLOKAI RANCH
ISLAND OF LANAI													
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650		WI			DOLE COMPANY
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A			DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370		WI			STATE DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 53	156 55	1430		MO			DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150		WI			DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040		WM			DOLE COMPANY
ISLAND OF MAUI													
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474		0541	04	LAHAINA	4	20 59	156 38	1050					MAUI PINEAPPLE CO.
HAELAAU 477	A	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A			U OF MICH MI HAALA OBSY
HALEHAKU 492.2		1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM + SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	120		8A			HARRY HASEGAWA
HANA AIRPORT 355		1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281		1148	01	HANA	1	20 41	156 01	325		7A			KUALI PANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	03	WAILUKU	3	20 53	156 33	1100					STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	4	20 59	156 33	650					EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WB AP 398	R	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		J	U S WEATHER BUREAU
KAILIILI 436	A	2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	2	20 39	156 08	1020					KAUPO RANCH
KEAHUA 410		3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM + SUG CO
KEANAE 346	A	4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311		4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM + SUG CO
KIPAHULU 258		4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	A	4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A			KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A			PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475		6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A	7066	04	LAHAINA	4	20 51	156 36	800		MO			PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	1	20 49	156 07	1260		6A			E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM + SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570		WI			KAUPO RANCH CO.
PAUWELA 490	A	7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A	8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500		MO			PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM + SUG CO
PUU PAKI 352		8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM + SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A	8753	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	2	20 39	156 24	1900		8A			ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	1	20 52	156 12	1200		WM			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR			MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348		9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392		9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A	9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII													
AHUA UMI 75	A	0040	05	N KONA	5	19 38	155 47	5220		MO			GREENWELL RANCH
AWINI 182.1	A	0190	01	N KOHALA	1	20 10	155 43	1870		WI			KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A	0450	01	S KOHALA	1	20 07	155 43	4240		MO			KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A			HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770		MO			KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220		MO			STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87	R	1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	J	U S WEATHER BUREAU
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A	1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A			PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A	2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4		2512	03	KAU	3	19 08	155 46	3700				C	PUSSELL P. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8		2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375		WI			HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191		3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1		3510	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A			MISS AMY GREENWELL
KEANAKOLU CAMP 124.2		4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV. OF FORESTRY
KEHENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840		WI			KOHALA DITCH CO LTD
KIOLAKAA A + F 6	A	4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		7A			KOHALA SUGA9 CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA AIRPORT 68.3		4764	04	N KONA	4	19 39	156 01	17	8A	8A			HAWAIIAN AIRLINES
KONA VILLAGE 93.8		4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300		WI			U S WEATHER BUREAU

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
PUU LAAU 102.1	A	8452	05 HAMAKUA	5	19 50	155 36	7440		MO			STATE DIV OF FISH-GAME
PUU LEHUA 73	A	8460	04 N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A	8515	01 HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUOPUMAU 167	A	8548	01 N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82		8550	02 S HILO	2	19 44	155 23	6340		6A			W. H. SHIPMAN, LTD
PUU WAAWAA 94.1	A	8555	05 N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A	8590	02 S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A	8675	03 KAU	3	18 57	155 41	400		WI			HUTCHINSON SUGAR CO
S POINT TRACKING STA		8679	03 KAU	3	18 57	155 41	305				C	FEDERAL ELECTRIC CORP
UMIAOA 118		8780	01 HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2		8830	01 N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2		9029	02 S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 178.6		9350	01 N KOHALA	1	20 08	155 47	3830				C	KAHUA RANCH

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensioal units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry

+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

• Amount included in following measurement, time distribution unknown

A The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column is for the period from the last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

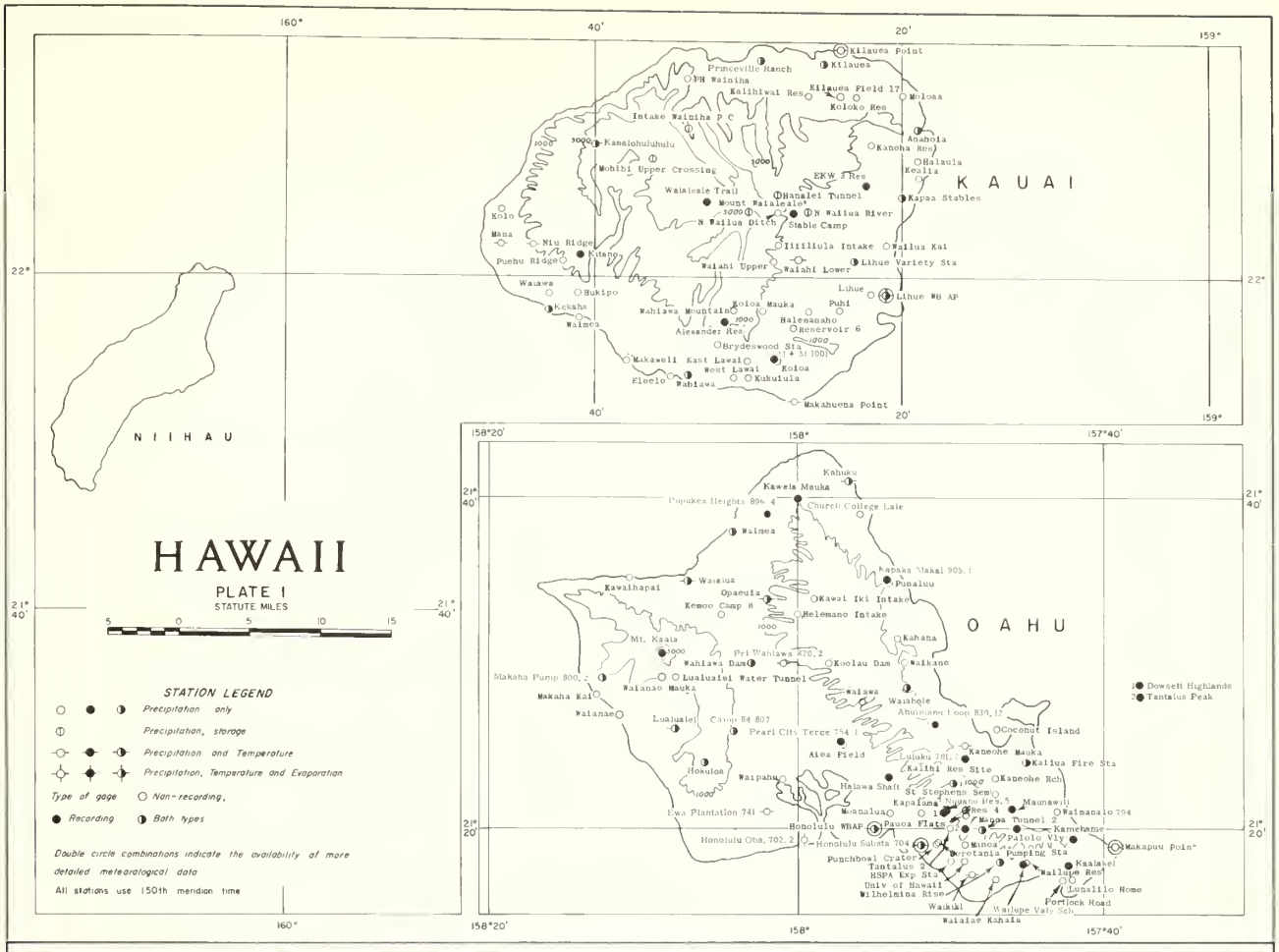
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

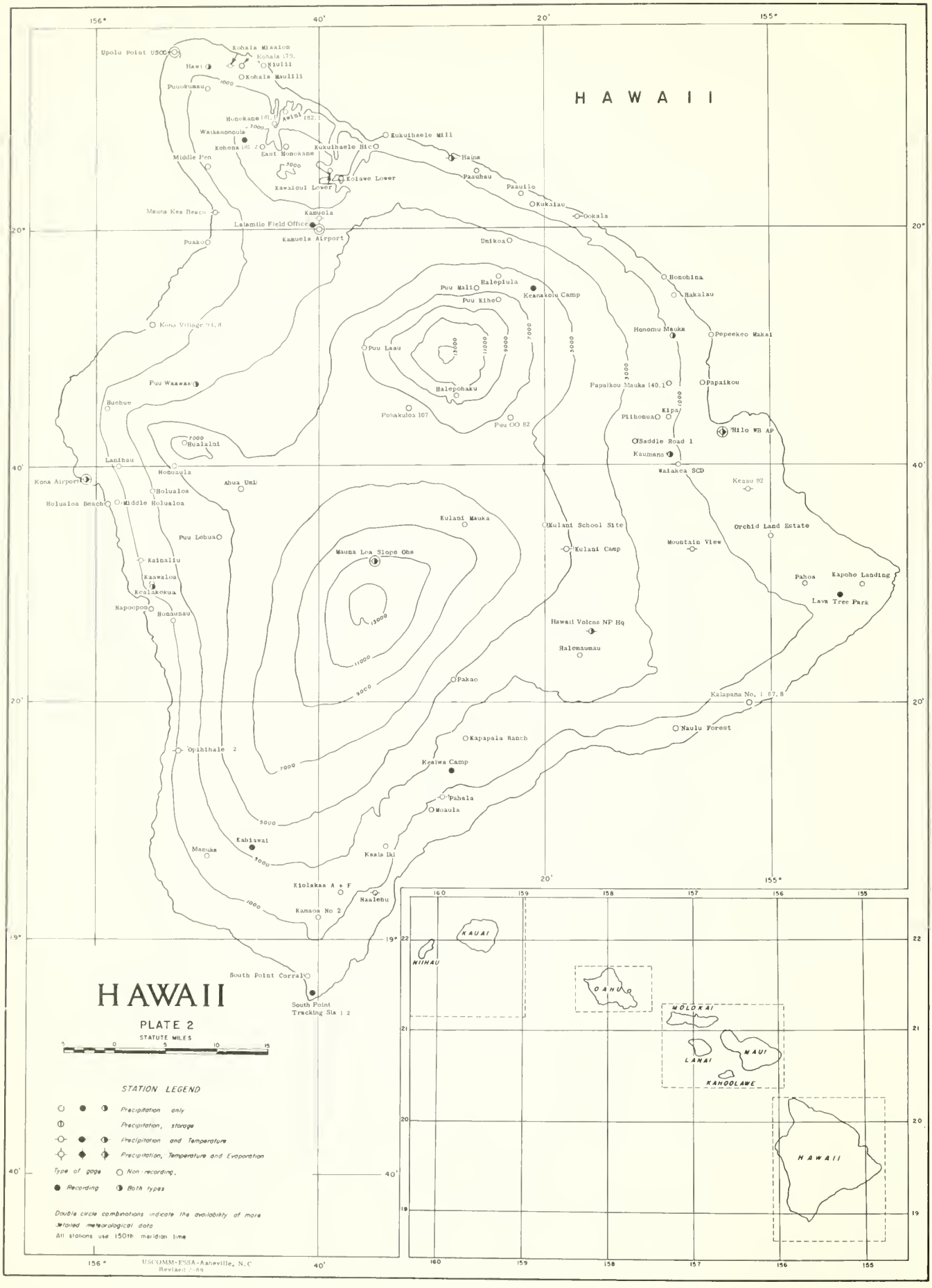
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE- 10/1/69-890


HAWAII
PLATE I
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridion time
NIIHAU
KAUAI
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
Kilauea Point
Kilauea
Princeville Ranch
PH Wainiha
Kalihiwai Res
Kilauea Field 17
Koloko Res
Moloaa
Intake Wainiha P C
Kanaiohuluhulu
Anahola
Kaneha Res
Halaula
Kealia
Mohihi Upper Crossing
EKW 3 Res
Waialeale Trail
Hanalei Tunnel
Kapaa Stables
Mount Waialeale
N Wailua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Miu Ridge
Kitano
Puehu Ridge
Iiililula Intake
Wailua Kai
Waiahi Upper
Waiahi Lower
Lihue Variety Sta
Wanawa
Hukipo
Lihue
Lihue WB AP
Kekaha
Waimea
Wahiawa Mountain
Koloa Mauka
Puhi
Alexander Res
Halenanaho
Reservoir 6
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleelo
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Pupukea Heights 894.4
Church College Lale
Waimea
Kawaihapai
Waialua
Kapaka Makai 905.1
Punaluu
Opaeula
Kawai Iki Intake
Kemoo Camp 8
Helemano Intake
Kahana
Mt. Kaala
Pri Wahiawa 820.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 800.2
Lualualei Water Tunnel
Waianao Mauka
Waiawa
Makaha Kai
Waihole
Ahuimanu Loop 839.12
Waianae
Lualualei
Camp 84 807
Pearl City Terce 754.1
Coconut Island
Kaneohe Mauka
Alea Field
Luluku 281
Kailua Fire Sta
Kailihi Res Site
Kaneohe Rch
Hoaluoa
Waipahu
Halawa Shaft
St. Stephens Sem
Kapalama Nuuanu Res. 5
Maunawili
Ewa Plantation 741
Moanalua
Res 1
Waimanalo 794
Nuuanu Tunnel 2
Honolulu WBAP
Pauoa Flats
Kamehame
Honolulu Obs. 702.5
Honolulu Substa 704
Palolo Vly
Manoa
Makapuu Point
Punchbowl Crater
Tantalus 2
Pretania Pumping Sta
HSPA Exp Sta
Kaalakei
Wailupe Res
Univ of Hawaii
Lunalilo Home
Walhelmina Rise
Waikiki
Wailupe Valy Sch
Portlock Road
Waialae Kahala
1 Dowsett Highlands
2 Tantalus Peak
Keoneleele Pens
Kalaupapa
Molokai AP
Kualapuu
Maunaloa 511.4
Waikolu
Kaunakakai Mauka
Kaunakakai
Mapulehu
Kamalo Mauka
Puuohoku Ranch
Nakalele Fld 60
Honolulu Fld 49
Honokohua
Field 46
Mokupea 475
Kahakuloa Mauka 482.1
Honokohau
Haelaau
Waihee Valley
Wahinahina
Kaanapali Airport
Waiebu Camp
Puu Kukui Makai
Kahoma Intake
Kahului WB AP
Hamakuapoko
Paia
Pauwela
Haiehaku 402.2
Wahikuli
Kukui
Iao Needle
Wailuku
Spreckelsville
Kailua
Lahaina
Kauaula Intake
Olowalu
Puunene
Keahua
Lupi Upper
Waikamoi
Launiupoko Intake
Waikapu
Hallimaile
Launiupoko Village
Olowalu Gulch
Haleakala B E S
Kailiili
Haleakala Ranch
Keanae
Pookela
Pohakea Bridge
Puohokamoa 2
Waikamoi Dam
Hana AP
Ukumehame
Kihei
Olinda
Ukuiele
Wailua Iki
Kula Heights
Puu Paki
Honomanu Guich
Twin Gates
Haleakala RS
Holua Cabin 259.5
Hana
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Polipoli Spgs
Panileihulu
Hanahuli
Kaupo Ranch House
Ulupalakua Ranch
Kipahulu
Auwahi
Waiopai Rch
Lanai City
Lanaihale
Kanepuu 690
Mahana
Kaumalapau Harbor
Malaues 676
Walakeakua
USCOMM-ESSA-Asheville, N.C.
Revised 2-69



HAWAII

PLATE 2

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

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S. I., TECH. & AGR. DIV.

HAWAII
JULY 1969
Volume 65 No. 7

CLIMATOLOGICAL DATA

Station		Temperature												Precipitation								
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																							
ISLAND OF KAUAI																							
ANAHOLA 1111	A													3.56	1.17			.0	0				0
KANALOHULUHULU 1075		72.9	57.0	65.0		76	21	51	28	0	0	0	0	3.14		.89	15	.0	0		8	1	0
KAPAA STABLES 1104	A													5.01				.0	0				0
KILAUEA FIELD 17 1135	A													8.78	2.07			.0	0				
KILAUEA POINT 1133		81.8	71.4	76.6		88	27	60	12	0	0	0	0	5.84		1.41	23	.0	0		19	3	1
KOLOA 936	A													6.60	1.54			.0	0				0
LIHUE WB AP 1020.1	R	85.0	73.9	79.5	1.9	88	27	70	27	0	0	0	0	1.47	- .47	.18	19	.0	0		5	0	0
MANA 1026		89.7	68.3	79.0	1.1	92	10+	60	17	20	0	0	0	.25	- .31	.14	19	.0	0		1	0	0
N WAILUA DITCH 1051	A													17.02				.0	0				
PH WAINIHA 1115														9.72	- .36	1.25	8	.0	0		23	7	1
PUEHU RIDGE 1040														.09		.09	21	.0	0		0	0	0
WAHIAWA 930	A													1.59	- .10	.33	15	.0	0			0	0
WAIAHI LOWER 1054		78.9	67.9	73.4		83	29+	65	28+	0	0	0	0	12.20		1.59	20	.0	0		26	10	3
WAIMEA 947														.17	- .30	.15	31	.0	0		1	0	0
ISLAND				74.7										5.39				.0					
* * *																							
ISLAND OF OAHU																							
HONOLULU OBSERV 702.2														.28		.15	27	.0	0		1	0	0
HONOLULU WBFC 703	R	87.4	74.3	80.9	2.1	92	28	72	9+	5	0	0	0	.63	.19	.28	26	.0	0		2	0	0
KAHUKU 912	A	84.0M	72.7M	78.4M	.7	86	28	68	28	0	0	0	0	3.08	1.19			.0	0				0
KANEOHE MAUKA 781		82.6	72.4	77.5	1.0	85	29	69	27	0	0	0	0	3.81	- .50	.40	24	.0	0		14	0	0
KOOLAU OAM 833														17.20	7.42	1.80	27	.0	0				
LUALUALEI 804		88.0	74.2	81.1		90	7+	70	28+	2	0	0	0	.86				.0	0				0
MAKAPUU POINT 724		82.9	71.2	77.1		88	28+	63	1	0	0	0	0	.68	- .16	.17	20	.0	0		4	0	0
NUUANU RES 4 783														5.02	- 3.65	1.78	25	.0	0				1
OPAEULA 870	A	81.1	67.5	74.3	2.1	87	29	64	5	0	0	0	0	5.36	2.06	1.23	26	.0	0			1	1
PALOLO VALLEY 718														14.28	3.47			.0	0				
PRI WAHIAWA 820.2	A	84.9	67.8	76.4		89	27	65	28+	0	0	0	0	2.45				.0	0				0
PUNALUU 884	A													5.86				.0	0				
WAHIAWA OAM 863	A													2.03				.0	0				0
WAIAHOLE 837	A													9.31	- 1.63			.0	0				
WAIALUA 847	A	85.6	67.5	76.6	.4	91	29	64	6	1	0	0	0	.72	- .02	.12	7	.0	0		2	0	0
WAIKIKI 717.2		86.7	73.4	80.1		89	28	69	1	0	0	0	0	.79		.23	27	.0	0		3	0	0
WAIPAHU 750	A													.51	- .16			.0	0		0	0	0
ISLAND				78.0										4.29				.0					
* * *																							
ISLAND OF MOLOKAI																							
KUALAPUU 534	A													.97	.09			.0	0			0	0
MAPULEHU 542														3.23	.29	.40	17	.0	0		14	0	0
MAUNALOA 511	A													.93	- .33	.34	5	.0	0		3	0	0
MOLOKAI AP 524		83.3	72.3	77.8		87	25	69	5+	0	0	0	0	.77		.27	14	.0	0		4	0	0
ISLAND				77.8										1.48				.0					
* * *																							
ISLAND OF LANAI																							
LANAI CITY 672	A	79.1M	63.6M	71.4M	.3	81	31+	61	16+	0	0	0	0	3.20	1.48	1.80	4	.0	0		5	2	1
ISLAND				71.4										3.20				.0					
* * *																							
ISLAND OF MAUI																							
HALEAKALA 8 E S 434	A													10.04	5.91	1.87	6	.0	0		12	8	4
HALEAKALA RS 338		65.5	48.9	57.2		74	12	42	24	0	0	0	0	6.02		1.92	15	.0	0		9	5	2
HANA AIRPORT 355		83.1	70.9	77.0		85	29+	68	23+	0	0	0	0	8.80		.83	15	.0	0		24	8	0
HONOKOHUA 493	A													3.63	1.25			.0	0				0
KAANAPALI AIRPORT		86.1M	71.0M	78.6M		88	31+	62	24	0	0	0	0	.80		.25	6	.0	0		3	0	0
KAHULUI WB AP 398	R	88.6	71.5	80.1	1.8	93	27	66	4	8	0	0	0	.53	.10	.16	6	.0	0		2	0	0
KAILUA 446		79.2	67.9	73.6	.9	81	29+	65	15	0	0	0	0	13.85	3.70	1.48	7	.0	0		24	13	3
KEANAE 346	A													22.05	2.18			.0	0				
KIPAHULU 258														11.06	1.53	.98	20	.0	0		23	10	0
KULA SANATORIUM 267		74.3	59.6	67.0	1.0	78	1	57	31+	0	0	0	0	5.03	2.97	2.06	4	.0	0		4	3	2
LAHAINA 361		87.6	70.6	79.1		92	14	68	18+	3	0	0	0	.00	- .11	.00		.0	0		0	0	0
PAIA 406														1.87	- .02	.30	7	.0	0		6	0	0
WAILUKU 392			M	M				71	28+			0	0	.45	- .26			.0	0			0	0
ISLAND				73.2										6.47				.0					
* * *																							
ISLAND OF HAWAII																							
HAINA 214		83.3	66.7	75.0	.9	85	29+	64	21+	0	0	0	0	4.69	1.23	.89	1	.0	0		11	3	0
HAWAII VOLCNS NP HQ 54		70.0	56.1	63.1	.2	79	12	50	29+	0	0	0	0	9.13	4.01	2.19	20	.0	0		18	5	2
HILO WB AIRPORT 87	K	83.6	67.9	75.8	.9	88	18	65	3	0	0	0	0	11.75	1.93	1.60	19	.0	0		23	7	2
HUEHUE 92.1	A													2.15	- .35			.0	0				
KAINALIU 73.2		79.3	65.4	72.4		83	21	63	3	0	0	0	0	6.39	- 2.16	1.22	8	.0	0		8	5	2
KAMUELA AIRPORT 191		75.4M	55.8M	65.6M		79	27+	45	21	0	0	0	0	1.79		.47	19	.0	0		5	0	0

See Reference Notes Following Station Index

Continued

Station	Temperature													Precipitation								
									No. of Days									Snow. Sleet			No. of Days		
									Max.		Min.												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below		Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	82.9	67.0	75.0	.6	85	28+	64	16+	0	0	0	0		12.28	2.14	1.69	20	.0	0		26	8	3
KEALAKEKUA 26.2	79.2	66.1	72.7		83	21+	63	4	0	0	0	0		5.31		1.22	8	.0	0		9	4	2
KONA AIRPORT 68.3	84.5	68.1	76.3		88	13+	66	7+	0	0	0	0		4.00		1.00	3	.0	0		7	4	1
KUKUIHAELE HIC 199														4.44	- 1.10	.70	2	.0	0		15	3	0
KULANI CAMP 79	66.3M	49.1M	57.7M		71	20+	40	7	0	0	0	0		9.58		3.30	20	.0	0				2
MAUNA KEA BEACH 98	88.6M	74.4M	81.5M		94	21+	69	24+	13	0	0	0		1.19		.64	24	.0	0		2	2	0
PAHALA 21	82.6	65.6	74.1	.9	88	14	60	24	0	0	0	0		.62	- .90	.35	26	.0	0		2	0	0
POHAKULOA 107 A														.94				.0	0			0	0
PUAKO 95.1 A														.38		.35	24	.0	0		1	0	0
PUU WAAWAA 94.1 A														2.55	.45	1.11	4	.0	0		4	2	1
UMIKOA 118														3.04	.05	1.17	20	.0	0			2	1
WAIAKEA SCO 88.2														15.82		3.28	20	.0	0		25	10	4
ISLAND			71.7											5.34				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 95° ON THE 1ST AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 31° ON THE 3D AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 40.20 INCHES AT PUOHOKAMOA 2 343, MAUI

LEAST TOTAL PRECIPITATION: .00 AT 3 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.65 INCHES ON THE 20TH AT PUU OO 82, HAWAII

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
JULY 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																	
ANAHOLA 1111	A	3.56	.03	.36	.06	*	*	*	.34	.45	.19	.19	.06	*	*	.13	.38	.17	.10	.02	*	*	.77		.02	.01	.01	*	*	.16			.11
BRYDESWOOD STA 985	A	4.71	.47	.05	.21	*	*	*	.61	.21	.10	.19	.06	*	*	.31	.41	.10	.06	.02	*	*	.95	.03	.30	.10	.21	*	*	.21		.01	.10
EAST LAWAI 934	A	5.75	.30	.26	.20	*	*	*	.64	.38	.03	.10	.10	*	*	.29	.52	.15	.12	.09	*	*	.85	.10	.38	.38	.45	*	*	.05		.02	.32
ELELE 927	A	1.11	.05	T	.02	*	*	*	.18	.02	.02	.02	.01	*	*	.10	.22	T	T		*	*	.23	T	.17	.02	.03						.02
HALAULA 1110	A	4.12	.07	.25	.14	*	*	*	.20	.52	.15	.25	.17	*	*	.24	.55	.15	.10	.12	*	*	.40	.10	.12		.04	*	*	.47	.02		.06
HALENANAHO 1006	A	7.75	.31	.14	.25	*	*	*	1.10	.58	.04	.19	.12	*	*	.57	.37	.12	.07	.11	*	*	1.67	.06	.39	.35	.53	*	*	.36		.03	.39
HUKIPO 945		.13																															.13
ILILILULA INTAKE 1050	A	17.69	.86	.65	.51	*	*	*	2.34	.85	.28	.32	.78	*	*	1.10	.93	.53	.60	.32	*	*	3.22	.16	.32	.46	1.59	*	*	.78	.06	.11	.92
INTAKE WAINIHA PC 1086	A	16.66	*	*	*	*	*	*	2.55	*	*	2.55	3.20	*	*	1.41	*	*	*	4.00	*	*	2.10	*	*	*	.85	*	*	*	*	*	*
KALIHIWAI RES 1131	A	11.58	.42	.23	.52	*	*	*	1.64	.79	.11	.40	.70	*	*	.66	.77	.42	.30	.08	*	*	2.06	.18	.19	.13	.53	*	*	1.22			.23
KANALOHULUHULU 1075		3.14			.05	.05		.04	.14	.26	.03	.07	.34	.07		.10	.89	.31			.22				.09	.04	.20	.07	.02	.07			.04
KANEHA RESERVOIR 1092	A	9.51	.25	.34	.22	*	*	*	.90	1.06	.18	.30	.40	*	*	.40	.50	.18	.30	.25	*	*	1.30	.10	.15	.12	.11	*	*	2.30	.05		.10
KAPAA STABLES 1104	A	5.01	.18	.23	.30	*	*	*	.34	.46	.04	.22	.44	*	*	.28	.39	.11	.05	.06	*	*	.80	.06	.07		.10	*	*	.62			.26
KEALIA 1112	A	3.74	.17	.19	.15	*	*	*	.05	.32	.06	.18	.42	*	*	.27	.35	.05	.11	.06	*	*	.58	.05	.15		.08	*	*	.15			.35
KIKAHA 944		.03																			.01												.02
KILAUEA 1134	A	6.05	.54	.03	.11	*	*	*	1.06	.44	.14	.09	.24	*	*	.34	.51	.14	.06	.03	*	*	1.19	.03	.02	.32	.02	*	*	.57		.01	.16
KILAUEA FIELD 17 1135	A	8.78	.39	.32	.15	*	*	*	.93	.87	.09	.42	.37	*	*	.54	.58	.30	.29	.06	*	*	1.75	.06	.11	.26	.12	*	*	.96		.01	.20
KILAUEA POINT 1133		5.84	.02	.02	.06	.16	.10	.19	.30	.09	.10	.06	.19	.24	.16	.27	.29	.06	.20	.61	.19	.03	.10	.11	1.41	.07	.15	.10			.56	
KOLO 1033		.32				.08	.05			.11											.08											
KOLOA 936	A	6.60	.41	.41	.15	*	*	*	.79	.41	.06	.17	.14	*	*	.25	.50	.15	.11	.06	*	*	.88	.17	.49	.40	.42	*	*	.46			.17
KOLOA MAUKA 994	A	8.01	.49	.22	.24	*	*	*	.89	.49	.18	.20	.14	*	*	.62	.38	.31	.03	.03	*	*	1.69	.24	.54	.21	.46	*	*	.16			.49
KULOKO RES 1137	A	9.28	.64	.10	.06	*	*	*	.79	.94	.35	.28	.23	*	*	.61	.41	.21	.32	.08	*	*	1.78	.01	.11	.15	.08	*	*	2.02			.11
KUKUIULA 935	A	2.62	.08	.16	.09	*	*	*	.45	.32	.03	.06	.02	*	*	.12	.23	.02	.01	.01	*	*	.29	.02	.33	.06	.21	*	*	.01			.10
LIHUE VARIETY STA		7.60	.65	.23	.15	.52	.02	*	.30	.41	.08	.20	.36	.12	.07	.28	.32	.58	.08	.09	*	1.46	.11	.13	.08	.21	.43	*	.39			.33
LIHUE 1020	A	2.83	.09	.16	.05	*	*	*	.21	.20	.06	.05	.05	*	*	.27	.38	.05	.01	.02	*	*	.72	.01	.10	.04	.01	*	*	.23	.01	.01	.10
LIHUE WR AP 1020.1	R	1.47	.07	.10	.09			T	.04	T	.05	.04	.02	.09	.02	.13	.14			.12	.18	.08	.04	.01	.08	.04	.01	.06		T	T	.06
MAKAHUENA POINT 940.1		.94	.07		.10	.01	.02		.03						.12	.01	.09		.03	.03	.12	.10	.10		.06	.03					.02
MAKAWELI 965	A	.31		.05	.02		.04						.01		.01	.03				.13										.02	
MANA 1026		.25					.03														.14		.03			.05					
MOHIHI UPR CROSS 1083	A	5.09		.39	.11			.17	.67	.39	.17	.11		.17	.22	.11	1.33	.22			.39	.05		.24	.15			.05	.10			.05
MOLOAA 1145	A	4.04	.34	.12	.27	*	*	*	.33	.44	.10	.16	.08	*	*	.24	.24	.13	.09	.04	*	*	.52		.06	.01	.03	*	*	.58			.26
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NIU RIDGE 1035		.76							.36												.24						.16					
N WAILUA DITCH 1051	A	17.02	.80	.60	.60	*	*	*	1.80	1.26	.20	.50	.86	*	*	1.30	1.10	.50	.60	.30	*	*	2.50	.30	.80	.30	.95	*	*	.75		.20	.80
PH WAINIHA 1115		9.72	.27	.10	.18	.60	.02	.12	.78	1.25	.25	.24	.16	.03	.20	.37	.67	.38	.38	.14	.94	.90	.14	.05	.23	.19	.33	.68		.03			.09
PRINCEVILLE RANCH 1117		7.99	.60	.13	.14	.24	*	*	1.26	.48	.12	.31	.28	.10	.25	.15	.51	.24	.14	.04	1.12	.23	.05	.23	.14	.07	*	.62	.29	.02	*	*	.23
PUEHU RIDGE 1040		.09																					.09										
PUHI 1013	A	4.43	.28	.16	.14	*	*	*	.46	.29	.05	.15	.07	*	*	.31	.45	.10	.03	.02	*	*	1.01	.03	.16	.20	.05	*	*	.23		.01	.23
RESERVOIR 6 1004	A	6.55	.22	.14	.43	*	*	*	.85	.21	.06	.14	.20	*	*	.39	.47	.10	.11	.07	*	*	1.37	.09	.22	.39	.44	*	*	.35			.30
WAHIAWA 930	A	1.59	.05		T	*	*	*	.14	.12	T	.05	.01	*	*	.17	.33	.03	.05	.02	*	*	.28	T	.17	.03	.07					.02	.08
WAHIAWA MOUNTAIN 990	A	17.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.00
WAIAHI LOWER 1054		12.20	.66	.43	.54	1.10	.27	.11	.19	.51	.08	.34	.46	.22	.27	.26	.55	.31	.27	.13	1.00	1.59	.27	.09	.18	.22	.81	.58	.03	.18		.03	.52
WAIAHI UPPER 1052		13.67	.55	.53	.45	1.28	.48	.07	.27	.76	.11	.28	.62	.63	.15	.28	.63	.41	.42	.24	1.05	1.53	.25	.11	.27	.35	.70	.52	.23	.13		.04	.33
WAIAWA 943		.13											.11																				.02
WAILUA KAI 1065	A	4.36	.18	.38	.18	*	*	*	.22	.32	.03	.13	.17	*	*	.15	.16	.32	.04		*	*	.85	.12		.03	.41	*	*	.44			.23
WAIMEA 947		.17			.02																												.15
WEST LAWAI 931	A	2.67	.08	.16	.04	*	*	*	.22	.42	.02	.12	.03	*	*	.12	.31	.07	.05	.01	*	*	.41	.03	.27	.11	.10					T	.10
* * * ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	3.92		.10		*	*	*	.51	.16	.21	.09		*	*	.42	.19	.15	.18		*	*	.59	.10	.14		.11	.75					.22
BERETANIA PUMPING STA		1.61	.16	.17	.18	.02		.05	.04	T	.01					.18	.11	T	T	T		.03	.02	.10	.12		.16	.26			T	T	.01
CAMP 84 807	A	.85	*	*	*	.09	*	*	.04	*	.05	*	*	*	*	.05	*	*	*	.10	.11	*	.10	*	*	*	*	.04	.23		*	*	.04
CHURCH COLLEGE LAIE		-	.20	.07		.21	.02		.50	.10	.05	.50	.20	.50	.05	.55	.21	.10	.20	.30	.55	.10	.06	-	-	-	-	-	-	-	.05	.25
COCONUT ISLAND 840.1		2.28	.10	.13	.05	.03	.02		.10	.10	.03	.11				.09	.04	.05	.14	.01	.16	.06	.09	.06	.08	.03		.75	.03				.02
EWA PLANTATION 741		.85		.05			T		.03		T						.01				.03						.06	.67			T	
HELEMANO INTAKE 881	A	8.24	*	*	1.50	*	*	*	.70	*	*	.45	*	*	*	*	.38	*	*	.45	*	*	1.59	*	*	.90	*	*	*	1.86	*	*	.41
HONOLULU 952.2	A	1.69	*	*	*	*	*	*	*	.15	*	*	*	*	*	*	*	*	*	*	*	.83	*	*	*	*	*	*	*	*	.63	*	.08
HONOLULU OBSERV 702.2		.28		.07					T												T			T			.06	.15				
HONOLULU WBFC 703	R	.63	T	.07	T	T	T	T	.01	T	.01	T	T	T	.01	.01	T	T		.02	.03	T	T	T	.02	.12	.05	.28		T	T	T
HONOLULU SUBSTA 704		1.06	.03	.12	.15				.01						.13	.07	.03							.08	.10	.25	.05	.04				
H S P A EXP STA 707		2.14	.30	.31	.29	T		.17	.07	.04	.05		T			.25	.08			.01	.04	.02	.01	.12	.24	T		.12			T	.02
KAHANA 883	A	25.63	*	*	*	*	*	*	4.80	*	*	*	*	*	*	4.80	*	*	*	*	*	*	6.80	*	*	*	*	*	*	8.40	*	*	.83
KAHUKU 912	A	3.08	.07	.05	.23	*	*	*	.24	.02		.10	.21	*	*	.12	.11	.19	.06		*	*	.38	.19	.03	.25	.09	*	*	.60		.02	.12
WAILUA FIRE STA 791.3		3.60	.04	T	T			T	T	.40	.01	.02	T	.03	.02				.03	T	.05		.03	.01	.09	.02	1.02	1.80	T		.01	T	.02
KALIHI RES SITE 777		10.64	.18	.44	.48	.48	.22	.50	.96	.04	.22	.32	.06	.02	.66	.10		.48	.10	.64	.52	.36	.02	.36	.12	.60	2.14	.30	.04	.08	*	*	.20
KANEOHE MAUKA 781		3.81	.17	.11	.05	.09	.16		.29	.13	.09	.04	.27	.04	.05	.19	.22	.02	.28	.06	.30	.18	.08	.28	.06	.40	.04	.04	.04	.07			.10
KANEOHE RANCH 838	A	3.58	.22	.13	.14	*	.14	*	.60	.27	T	.10	T	*	*	T		.05	.10	.08	*	*	*	.22	.40	.03	T	.55	*	.35	T		
KAPALAMA 773	A	5.86	.48	.34	.30	*	*	*	.49		.30		.50	*	*	.30	.20	.05	.30	.20	*	*	*	1.00	.06	.12	.30	*	*	.72			.20
KAWAIHAPAI 841	A	1.23		.05		*	*	*	.20	.01			.07	*	*	.07	.07	.10	.04	.01	.18	*	.07	.15	.03			.15				.03
KAWAI 1KI INTAKE 880.2	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KEMOO CAMP 8 855	A	.90			.01	*	*	*	.07	.01				*	*	.05	.15	.01	.11		*	*	.19	.01			.02	*	*	.20			.07
KOOLAU DAM 833		17.20	1.26	.33	.57	.44	.09	1.20	.80	.52	.30	.09	.08	*	*	1.34	1.49	1.10	.58	.28	.88	1.11	.46	.35	.40	.58	.06	.20	1.80	*	*	.43	.46
LUALUALEI 804		.86			.01								.02				.02		.02		*	*	*	.10				*	*	.68			.01
LUALUALEI WTR TUNNEL	A	3.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.10
PUNALILO HOME 724.2		1.96			.15			*	.15		.11	*	.05		*	.20			*	.05	.05				.20			1.00				
MAKAHA KAI 796	A	.20																				.06						.14					
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAKAPUU POINT 724		.68	.01							.02	.01		.04			.10			.06		.03	.17		.02	.10		.01	.11					
MANOA 712		6.22	.41	.75	.43	.35	.03	.21	.29	.15	.09	.08	.07	.03	.02	.63	.20		.20	.05	.34	.38	.22	.59	.03	.23	.06	.17	.08		.03	.02	.08
MANOA TUNNEL 2 716		15.56	.22	.86	.46	.20	.14	.98	.60	.04	.32	.26	.02		1.02	.30	.08	.66	.24	1.34	1.48	.76	.12	.76	.60	.66	2.14	.88	.02	.02	.04	.02	.32
NUANALUA 770		2.12	.17	.30	.05	.01		.14	.14	.07	.12					.25	.07	.06	.06	.04	.11	.09	.06	.02	.02	.02	.02	.42	.04			.03	.11
NUUANU RES 4 783		5.02	*	*	*	*	*	*	.92		.02	.08	.02		.14	.08		.12	.04	.44	.26	.10		.10	.22	.42	1.78	.28					
NUUANU RESERVOIR 5 775	A	8.08	.35	.55	.35	*	*	*	1.05	*	.29	*	.08	*	*	.50	*	.30	*	.35	*	*	*	1.94	.21	*	.64	*	*	1.34			.13
OPAEULA 870	A	5.36	.19	.08	.08	.05	*	.26	.25	.26	.04	.04	.02	.05	.10	.36	.20	.42	.11	.02	.28	.42	.12	.04	.14	.07	.07	1.23	.28			.05	.13
PALOLO VALLEY 718		14.28	.38	.62	.54	.12		.98	.48	.02	.40	.24	.02	.04	.84	.12	.04	.50	.08	.96	1.24	.66	.08	.52	*	*	*	.96	*	*	*	5.30		.10
PAUOA FLATS 784		16.92	.16	.56	.80	.14	.02	.74	.62	.02	.20	.54	.14	.02	1.00	.24	.26	1.18	.18	2.28	1.76	.88	.20	.52	1.14	1.20	2.86	.96	.02		.06		.22
PORTLOCK RUAO 724.4		1.48		.04	.24				.08			.04	.06	.02	.02	.02	.01		.03			.03	.14	.80		.02		.12	.02	.03			
PRI WAHIAWA 820.2	A	2.45	.08	.06	T		*	*	.09	.04	.01	.02	*	*	*	.23	.52	.01	T	*	*	*	.41	.02	.02		.04	*	*	.77			.13
PUNALUU 884	A	5.86	.17	.10	.06	*	*	*	51	.40		.11	.12	*	*	.56	.04	.07	.12	.03	*	*	.38	.22	.17	.33	.30	*	*	2.00			.17
PUNCHBOWL CRATER 709	A	2.21	.26	.27	.16	.01	.10	.12	.04	.06	.02				.01	.28	.18		.02	.04	.06	.05	.02	.09	.18	.03	.03	.11	.01			.01	.05
ST STEPHENS SEM 788		4.56	.08	.25	.04	.16		.19	.42	.22	.04	.17	T	.02	.10	.16	.10	.12	.24	.06	.34	.31	.03	.14	.15	.29	.08	.54	.18	T			.13
TANTALUS 2 780.5		12.36	.66	.55	.68	*	*	*	1.44	.45	.15	.25	.03	.07	*	1.05	.76	.04	.62	.10	1.18	1.02	.16	.20	.56	.32	.21	1.07	.43		.17	.19
UNIV OF HAWAII 713	A	2.43	.10	.30	.24	*	*	*	.45	.01	.06	.02	T	*	*	.24	.07	T	.06	T	*	*	*	.27	.22	.08		*	*	.14		T	.09
WAHIAWA DAM 863	A	2.03	.02	.02	.01	*	*	*	.18	.02		.02		*	*	.09	.18	.08	.14	.01	*	*	.51	.04	.02		.02	*	*	.52			.15
WAIAHOLE 837	A	9.31	.31	.25	.51	*	*	*	1.40	.58	.02	.35	.44	*	*	.52	.24	.04	.19		*	*	1.38	.07	.54	.28	.23	*	*	1.69			.27
WAIALAE KAHALA 715		1.33	.08	.07	.04		.03	.02	.03	T	.01	.03		.03		.13	.03	T		.08	T	T	.03	.01	.15	.21	T	T	.12	T	.21	T	T	.02
WAIALUA 847	A	.72		T					.16				T	.01		.04	.07	.06	.04	.01	.04	.02	.03	.03	.09			.03	.11				.02
WAIANAE 796	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAIANAE MAUKA 803	A	5.63	*	.11	*	*	.20	*	*	.04	*	*	*	.25	*	*	*	*	.45	*	*	1.55	*	*	*	1.25	*	*	1.55	*	*	*	.03	*
WAIAWA 836	A	18.38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.38
WAIKANE 885	A	13.26	*	*	*	*	*	*	2.64	*	*	*	*	*	*	2.57	*	*	*	*	*	*	2.30	*	*	*	*	*	*	5.20	*	*	.55
WAIKIKI 717.2		.79	.02	.02	.01		T	.01	T		T	T	.02			.06			.04			.01		.09	.10	T		.08	.23		.10	
WAILUPE WESV. 723.2	A	3.30	*	.14	*	*	*	*	*	*	*	.54	*	*	*	*	*	*	.42	*	*	*	*	*	*	.95	*	*	*	*	*	1.14	.11
WAIMANALO 794	A	1.99		.08	.02		*	*	.32	.02		.06		*	*	.12	.04		.05					.23	.13			*	.92				
WAIMEA 892	A	4.00	.04	.19	.09	*	*	*	.57	.16		.01		*	*	.42	.23	.44	.09	.04	*	*	.83	.17	.19	.04		*	*	.40			.09
WAIPAHU 750	A	.51		.02	.02	*	*	*	.06	.03	.01	T		*	*	.01	.08	.03	.02		*	*	.08	.02	.01	.01	.01	*	*	.09			.01
WILHELMINA RISE 721		3.44	.14	.08	.14	.02	.04	.08	.22	.04	.12				.14	.14	.04	.06	.08		.14	.14	.02	.20	.44	.02	.24	.66		.02			.20

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII JULY 1969

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • • ISLAND OF MOLOKAI																															
KAUPAPA 363	A	1.21	*	*	*	*	.06	.03	.04	*	*	*	*	*	*	*	.09	*	.20	.12	.03	*	.08	*	*	.11	*	.05	.19	.03	*	.18	*
KUNAKAKAI 536	A	.00																														
KAMALELE PENS 551	A	.38													*	.38																
KAMALAPUU 534	A	.97						*	.16		.06	T			*	.36	.01	.12	.06			*	T	.10			.06				.04	
MAPULEHU 542		3.23	.24	.01	.17	.02	.01	.04	.22	.02	.16	.19		.04	.02	.34	.23	.05	.40	.03	.16	.13	.04	.11	.05	.06	.11	.19			.03	.10	.06
KAMIOLA 511	A	.93				.29	.34						*	*	.03			.05										.22				
KILOHAI 29 524		.17	T				T		T		.13	.07	T			.27		T	.02	T	T	.02		.10				.16			T	
PUUOMOKI RANCH 542.1		2.53	.02	.08	.08	T	.02	.02	.16	.07	.03	.42	.10	T	.03	.16	.25	T	.26	.01	.04	.25	.12	.13	.02	.09	.11	T			.04	.02	T
KAILIULI 540	A	5.77							1.11										2.77				1.25							.64			
• • • ISLAND OF LANAI																																
KUNEPUU 490	A	1.16				*	*	*	*	*	*	.45								*						.05	*	*	*	*	*	*	.66
KAUMALAPAU HARBOR 658	A	.44				T	*	*	.36										.02							.04							
LANAI CITY 672	A	3.20				1.80	.11	*	.05	T		.02			*	.03	T		.31	T	.17	*	.02			.03	.01	.60	*	.04	.01		T
LANAIHALE 784	A	2.19	*	*	*	*	.95	*	*	*	*	*	*	.40	*	*	*	*	*	*	.27	*	*	*	*	*	*	*	.57	*	*	*	*
MANA 694	A	.33	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.33
KAENA 676	A	.38				*	*	*	*	*	*	.02	*	*	*	*	*	*	.01								*	*	*	*	*	*	.35
KAIAFAKALA 685	A	.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.51	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02
• • • ISLAND OF MAUI																																
AUWAHI-252	A	.18																								.18							
HALEAKALA B E S 434	A	10.04	1.24	.84	.60		.02	1.87	.60	.02	.11	.02			.04	1.11	1.81		.06		.38	.60	.05		.05	.01	.04	.22	.01				.34
HALEAKALA RANCH 432	A	4.24	.52	.26	.14	*	*	.72	.26	*	*	*	*	*	*	.53	.81	*	*	*	.11	.13	*	*	*	.70	*	*	*	*	*	*	.06
HALEAKALA RS 338		6.02	.62	.52	.11	T	T	.11	.22		.03	.13				1.36	1.92	T	.07	T		.74	T	T	.06	.01	.01	.01	.01				.09
HALEAKALA SUMMIT 338.4		.46	T	T	.02	*	*	*	T					*	*	.11	.06				T	.17		T	T	.03	*	*	.05				.02
HALIIMAILE 423	A	4.32	.45	.16	.47	.15			1.18	.03	.04	.04				.46	.47		.01		.01		.20		.01	.05		.47			.03	.09
HAMAKUAPUKO 485		5.36	.17	.25	.04			.20	.76	.21	.12	.53	.01	.05	.04	.90	.29	.03	.07	.01	.24	.50	.17	.05	.04	.08	.28	.43	T			.02	.27
HANA 354		7.31	.21	.47	.54		.30	*	.53	.03	.04	.43	.09		*	.08	.45		.22	.20	.23	*	.48	.22	.23	.35	.74	.05	*	.04		.26	.52
HANA AIRPORT 355		8.80	.14	.10	.60	.40	.05	.41	.15	.11	.11	.77	.11	.04	T	.01	.83	.13	.61	.03	.31	.31	.17	.13	.70	.70	.25	.13	T		T	.20	.70
HANAMAULI 281		12.08	.68	.26	.73	.75	.03	.48	.50	.13	.25	.61	.09	.06	.56	.55	.49	.02	.63	.08	.54	.50	.30	.33	.43	.25	1.46	T			.02		.63	.72
HOLUA CABIN 259.5	A	4.03	*	*	1.63	*	*	*	*	.20	*	*	*	*	*	*	*	*	*	2.00	*	*	*	*	*	.20	*	*	*	*	*	*	*
HONOMAU 480	A	5.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.20
HONOMUHUA 493	A	3.93	.19	.08	.04	.03	*	*	.39	.02	.08	.25	.02	*	*	.26	.35	.02	.05		.19	*	.71	.06	.08	.19	.07	.44				.05	.06
HONOMANU GULCH 341	A	14.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	*	14.60
KAANAPALI AIRPORT		.80	T	T				.25		T	.03					.10	.10	T	.09	T	T	.06	.04	.01				.09				T	.03
KAHOMA INTAKE 374	A	16.81	*	*	*	*	*	*	*	*	*	*	4.81	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.00	*	*	*
KAHULUI WB AP 398	R	.53	T	T			.09	.16	T	T	.01			T	.01	.06	T	T		T	T	T	T		.02		.12					T	.96
KAILIILI 436	A	16.54	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.54
KAILUA 446		13.85	.43	.43	.74	.55	.02	.56	1.48	.40	.25	.94	.22	.04	.06	.81	.64	.04	.62	.12	.64	1.26	.50	.22	.51	.35	1.32	.10		.01		.14	.45
KAUALUA INTAKE 375	A	3.77	*	*	*	*	*	*	.47	*	*	*	*	*	*	.42	*	*	*	*	*	*	1.94	*	*	*	*	*	*	.94	*	*	*
KEAHUA 410		.92	.02	.02	.09	T		.09	.30		T	T				.09	.07				T	.01						.22			T	.01
KEANAE 345	A	22.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	22.05
KEAWAKAPU BEACH 260.2		.02																										.02					
KIHEI 311		.07		T					T																								
KIPAHULU 258		11.06	.75	.64	.90	.40		.65	.35	.37	.08	.25	.12			.52	.77	.11	.36		.47	.98	.14	.18	.38	.30	.74	.63			.50	.47
KULA HEIGHTS 323.2		.83		.06	.06											.08			.03								.60					
KULA SANATORIUM 267		5.03			.13	2.06	2.04	T									T		.09			T			.01	.02	.02	.65	.01				
LAHAINA 361		.00																															
LAUNIUPOKO INTAKE 376	A	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.90	*
LAUNIUPOKO VILLAGE 372	A	.18								.08						.10																	
LIPI UPPER 442	A	16.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.90
MANINAMINA 466	A	5.78	.45	.20	.17	*	*	.48	.25	.05	.10	.20	*	*	*	.59	.66	*	.08	*	.45	1.54	.10	.09	.03			.20				.04	.10
MAKAALELE -FLD 60-497	A	2.85	*	*	*	*	*	*	.35	*	*	*	*	*	*	.38	*	*	*	*	*	*	.78	*	*	*	*	*	*	.99	*	*	.31
MILINDA 332	A	5.23	.78	.48	.11	*	*	*	.50	.02	.04	.01	T	*	*	.91	1.38	.01	.02	T	*	*	*	.46	.05	.03	.03	*	*	.35	T	T	.05
OLOWALU 296		.04														.04																	
OLOWALU GULCH 377	A	1.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40	*	*	*
PAAKEA 350		21.45	1.19	1.16	1.43	.56	.27	.73	1.30	.69	.42	.86	.19	.08	.08	1.47	1.88		.69	.28	1.06	1.94	.41	.37	.74	.45	1.17	.26			.46	1.31
PAIA 406		1.87	.05	.21	.02			.29	.30	.04	.06	.07			.01	.21	.09				.03	.11	.02	T	.01	.09	.04	.15			T	.07
PANILEIHULU 259.2	A	4.62	*	*	*	*	*	*	*	1.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.50
PAUWELA 490	A	8.18	.34	.56	.10	.02	*	*	1.22	.37	.18	.42	.04	*	*	.75	.39	.04	.14	.09	*	*	1.73	.08	.07	.16	1.16	*	*	.05		.02	.25
PUHAKEA BRIDGE 307.2	A	.02	*	*	*	*	*	T	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
POLIPOLI SPRINGS 267.2	A	1.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.25	*	*
PUOHOKAMOA 2 343	A	40.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	40.20
PUU KUKUI MAKAI 472	A	14.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.00
PUUNENE 396		.61		.01	T			.04	.03		.02						T									.01		.10				T	
SPRECKELSVILLE 400.2		.95		.06	.01			.19	.10		.03	.02			T	.10	.08				T	.03	T			.05	.03	.18					.07
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	9.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.09	
UKUMEHAME 301	A	.13			.03											.07	.03																
UPALAKUA RANCH 250		3.47			.10	1.25	1.92					.06							.12												.02		
WAHIKULI 364	A	.73							.03							.08	.36											.26					
WAILEHU CAMP 484	A	1.76	.03	.06	*	*	*	.19	.46	*	.10	.06	*	*	*	.10	.08	*	.14	*	*	.02	.03	*	.07	.05	.07	.30	*	*	*	*	*
WAIHEE VALLEY 482	A	2.57	.10	.08	*	*	*	.45	.25	*	.10	.11	*	*	*	.20	.18	*	.05	*	.02	.03	.05	*	.17	.10	.10	.58	*	*	*	*	*
WAIKAMOI 449	A	19.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	19.60
WAIKAMOI DAM 336	A	34.48	2.27	4.52	1.77	*	*	*	5.68	.63	.40	.61	.02	*	*	3.54	5.19	.01	.62	.06	*	*	*	4.22	.59	.25	2.44	*	*	.06	T	.35	1.25
WAIKAPU 390	A	.35	*	*	.01	*	*	.08	.06	*	*	*	*	*	*	.02	*	*	.01	*	*	*	*	*	*	.01	.10	.02	*	*	*	*	.04
WAILUKU 392		.45	*	*	*	*	*	*	*	.19		.01			*	.03	.01		.01						T	.01	.08	.07					.04
WAIOPAI RANCH 256	A	.25																							*	*	.25						
• • • ISLAND OF HAWAII																																
AHUA UMI 75	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00
HILO 1824.1	A	9.76	.32	.42		*	*	*	1.84	.38	.41	.19	.04	*	*	.87	.14				*	*	2.39	.06	.58	.23	.35	*	*	*	.03	.59	.92
HILO HONOKANE 183.2	A	18.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.43
KONA 214		4.69	.89	.86	.03			.40	.48	.14	.10	.01				.59	.15			.03		.43	.01	.08	.07		.24				.05	.01	.12
KAKALAU 142		12.74	.83	1.01	.37	.15	.70	1.90	.50	.39	.35	.45	.06	.15	.26	.27	.72	.02	.16		.19	1.70	.10	.41	.20	.01	.10	.10	.01		.43	.55	.65
KALEMAUMAU 52	A	1.87	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.87
KALEHUAKA 117	A	1.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.55
KAPOHOKAHAU 111		2.63	.01	.01	.01	.26	.02					.06				.02					.59	1.60						.02					.03
HAWAII VOLCNS NP HQ 54		9.13	1.18	.76	T	.30		.01	.76	.33	.05	.25	.22	.10	.30	.06	.45	.06	.09	.04	.17	2.19	.13	.15	.24	.05	.21	.53	.02	.01		.41	.06
HOWI 168	A	3.41	.13	.17		*	*	*	.73	.18	.07	.09	.01	*	*	.30	.33	.01	.03	.05	*	*	.77	.05	.03	.03	.04					.10	.29
HILO WB AIRPORT 87	R	11.75	.97	.72	.02	.16	.21	1.33	.43	.15	.36	.40	.10	.19	.07	.45	.41		.36	.01	1.60	.25	.31	.82	.16	.07	.49	.01	.05	.02	.76	.21	.66
HOLUALOA 70	A	8.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.60	*	*
HUEHUEALOA BEACH 68	A	5.11		.47		.04			.60	1.19			.37			.20		1.33					.11										.80
KAHALUU 27		9.46	.13	.34	.47	.05	.10	.20	.07	1.34	.29	.07	.52	.04	.02	.03	.42	.98	.02	.13	.04	2.00	.10	.94	.14	.18	.01		.01	.04	.19	.44	.13
HONOHINA 137		13.27	1.02	1.54	.10	.15	.35	1.80	.78	.62	.40	.34	.08	.22	.31	.26	.75	.02	.05	.06	.28	1.56	.02	.40	.24	.01	.04	.18	.02		.26	.70	.71
HONOKANE 181.1	A	12.82	.36	.39		*	*	*	2.27	.83	.42	.28	.05	*	*	1.75	.23				*	*	2.79	.04	.41	1.03	.92				.02	.55	.48
HONOMU MAUKA 138		18.89	.94	2.34	.08	.32	.32	1.58	.64	.86	.86	.58	.14	.25	.39	.29	1.24	.03	.28	.22	.40	3.53	.09	.55	.25	.02	.25	.30			.09	.93	1.12
HONUAULA 71	A	2.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.80	*	*
HUEHUEALAI 67	A	.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	*	*
HUEHUE 92.1	A	2.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.15		
KAALA IKI 12	A	1.37				.03	.09		T			.06							.02		T	.70	T				T	.34			.02	.11	
KAAWALUA 29	A	5.18	.08	.45	.09	*	*	*	.12	1.21	.09		.76	*	*	.05	.04	.95		T	*	*	.48	.39	.03	.09		*	*	.07	.03	.03	.22
KAINALII 73.2		6.39	.02	.05	.06	.03	.41		.04	1.22	.56	.01	.42		.03	.08	.90	1.12	.01	.07			.78	.26	.06	.09			.02	.03	.03	.01	.08
KALAPANA NO 1 67.8		4.58	.38	.74				.10	.34	*	.17	.16	.25	.08	.10	.10	.01		.03	.02	.18	.87	.04	.11	.03		.55	.17	.07	*	*	.08	
KAMAOA NU 2 5	A	2.41	*	*	*	*	*	.18	*	*	*	*	*	.67	*	*	*	*	*	*	*	.75	*	*	*	*	*	*	*	.78	*	*	.03
KAMUELA 19 .2		1.67	.05	.06				.06	.08	.08	.06	.04	.11	.02		.04	.09				.08	.06	.05			.18	.43		.04	.10		.02	.02
KAMUELA AIRPORT 191		1.79	1	T				.03	.05	.05	.02	.02	.02	T	T	.09	.02	T			.47	.10	T			.40	.26	T	.05	.19	T	T	.02
KAPAPALA RANCH 36	A	1.83	*	*	*	*	.59	*	*	*	*	*	*	*	*	*	*	*	.04	*	*	.64	*	.08	*	*	*	.48	*	*	*	*	*
KAPOHO LANDING 93.5	A	10.00	*	*	1.91	*	*	*	*	*	*	*	2.85	*	*	*	*	*	*	3.42	*	*	*	*	*	*	1.82	*	*	*	*	*	*

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		20.91	1.96	2.62	1.10	1.46	.21	.48	2.01	.84	.16	.64	.06	.12	.26	.21	.78	.19	.12	.12	.26	3.65	.57	.43	.36	.09	.40	.60	.02			1.05	.14
KAWAINUI LOWER 193	A	14.49	*	*	*	1.20	*	*	*	*	*	*	2.87	*	*	*	*	*	*	1.02	*	*	*	*	*	*	9.40	*	*	*	*	*	*
KEAAU 92		12.28	.68	1.13	.33	.32	.12	.26	1.00	.91	.33	.43	.22	.22	.29	.03	.88	.10	.20	.17	.39	1.69	.06	.60	.39	.02	.50	.40		.11	.32	.18
KEALAKEKUA 26.2		5.31	.05	.06	.31	.03	T		.33	1.22	.08	T	.69		.05	T	.04	1.13		.01			.52	.34	.07	.12			T	.08	.01	.02	.15
KEHENA 181.2	A	12.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.50
KIOLAKAA A & F 6	A	7.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.40
KIPA 89.2	A	22.36	2.57	3.09	.41	.40	.23	.61	1.84	.72	.20	.68	.22	.15	.40	.16	1.00	.12	.17	.16	.39	4.54	.37	.50	.32	.14	.50	.86	.04	.04	.18	1.08	.27
KOHALA 179.1	A	3.14	.10	.20		*	*	*	.75	.12	.09	.06			*	.15	.27	.07	.03	.03	*	*	.63	.05	.10	.02	.04					.21	.22
KUHALA MAULILI 176	A	6.21	.33	.28	.01	*	*	*	1.65	.45	.20	.16	.02	*	*	.39	.28	.06	.01	.10	*	*	1.43	.04	.11	.04	.03					.34	.28
KUHALA MISSION 175.1		5.42	.19	.13		T	T	.35	1.66	.24	.01	.17	T	.07	.02	.22	.37	.02	T	.04	.28	.69	.14	.06	.09	.03	.06			T	.29	.29
KOIAWE LOWER 196	A	9.17	*	*	*	1.05	*	*	*	*	*	*	1.77	*	*	*	*	*	*	.90	*	*	*	*	*	*	5.45	*	*	*	*	*	*
KONA AIRPORT 68.3		4.00	.15	.76	1.00		.01		T	.60	T	T					T		.07		.46		.85	T		.10					T	
KONA VILLAGE 93.8		.24		.10								.08													.05						.01	
KUKAIAU 222		7.71	.53	2.74	*	.09		.81	.48	.32	.11	.10		T	.03	.50	.28	.02	.03	.01		1.26	.02	.06	.15	T	.04				.08	.05
KUKUIHAELE HIC 199		4.44	.33	.70				.64	.30	.12	.12	.03				.51	.10			.10	.14	.34	.05	.01	.19	.12	.38			.02	.08	.16
KUKUIHAELE MILL 206	A	4.74	.41	.82	.10	*	*	*	.88	.09	.15	.05		*	*	.37	.22			.03	*	*	.35	.01	.13		.80			.01	.09	.23
KULANI CAMP 79		9.58	.01	1.47	.12	.29	.03	.12	.50	*	.41	.36	.05	.06	.21	.25	.34	.09	.23	.10	.19	3.30	*	.10	.36	.10	*	.65	.02	.01	.05	.16	
KULANI MAUKA 76	A	3.93	.25	.15	.03			.31	.05		.05	.05			.03	.55	.07				1.67	.25		.06	.02		.08					.31	
KULANI SCHOOL SITE 78	A	9.52	*	*	*	*	2.70	*	*	*	*	*	*	1.42	*	*	*	*	*	*	2.00	*	*	*	*	*	*	3.40	*	*	*	*	*
LANIHAU 68.2		5.96	.08	.40	1.08	.08	.10		.04	1.55			.30			.55							.74			.21				.43			
MANUKA 2	A	3.15		.08		*	*	*	1.88	.12	T	T		*	*	T	.20	.02	.08	.06	*	*	*	.18	.16			*	*	.01	.08	.28	T
MAUNA KEA BEACH 98		1.19			.55																					.64							
MAUNA LOA SLOPE OBS		.25		.03	T																.19	.02				.01							
MIOOLE HOLUALOA 68.1	A	4.85	*	.99	*	.30	*	*	.40	1.38	*	*	.21	*	*	.21	*	.67	*	*	*	*	.21	*	*	*	*	*	*	*	*	*	.48
MIOOLE PEN 147.1	A	.31																				.01				.30							
MOAULA 18	A	.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.35
MOUNTAIN VIEW 91		17.26	1.30	2.35	.04	.45	.16	.36	1.42	1.18	.27	.55	.24	.29	.37	.04	.78	.28	.18	.29	.60	2.67	.11	.35	.43	.09	.31	.85	.02			1.11	.17
NAALEHU 14	A	1.14		T		*	*	*	T			.06	T				T				*	.72	T			T	.09	*	*	.20		.07	T
NAPOOPOO 28	A	5.55	*	*	*	*	*	*	.93	*	*	*	*	*	*	1.59	*	*	*	*	*	*	2.45	*	*	*	*	*	*	.58	*	*	*
NAULU FOREST 38.6		3.66	.13	.07				.02	*	*	.77	.24	.09	.02	.12	*	*	.15	.01	*	.10	1.02	*	*	.03		.36	.22	.02	*	*	.29	
NIULII 179	A	4.02	.30	.22	.03	*	*	*	1.05	.10	.15	.07		*	*	.19	.30				*	*	.79	.07	.15		.10					.30	.20
OOKALA 223		10.87	.96	2.82	.38	.01	.01	.65	.71	.39	.09	.30	.04	.06	.10	.32	.70	.06	.04	.08	.04	1.51	.09	.15	.23	.02	.70					.21	.20
OPIHIHALE 2 24.1		4.73	1.84	T	.24	.01			.07	.02	T	.27	.05	T		.01	.27		.08	T	T	.87	.17	.03	.09	T	T	.02	.01	.19	.43	.05	.01
ORCHID LAND EST 91.5	A	10.61	*	*	2.64	*	*	*	*	*	*	*	3.12	*	*	*	*	*	*	2.18	*	*	*	*	*	*	2.67	*	*	*	*	*	*
PAAUHAU 217		3.45	.71	.79	.04			.44	.14	.11	.06					.36	.12					.29	.01	.05	.08		.12				.01	.03	.09
PAAULLO 221		5.24	.63	1.57	.06			.60	.26	.22	.08	.08		T	.02	.43	.13		.04	T		.89	T	.09	.08	T	.01			T	.03	.02
PAHALA 21		.62	.06	.05		.03																.13						.35				
PAHOA 65		13.25	.60	.46	.14	.35	.13	.28	1.09	.68	.35	.79	.22	.27	.35	.04	.60	.15	.23	.28	.30	1.30	.05	.33	.48	.18	.74	1.44	.03		.27	.58	.54
PAKAO 37	A	9.52	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.52
PAPAIKOU 144.1		12.70	1.04	.46	.44	.12	.41	1.36	1.20	.48	.50	.58	.12	.11	.20	.05	.77	.07	.17	.15	.27	1.86	.14	.49	.28	.08	.19	.21	T	.02	.13	.52	.28
PAPAIKOU MAUKA 140.1		23.24	2.19	3.98	.32	.32	.12	1.50	1.60	1.54	.70	1.08	.18	.23	.48	.08	.88	.07	.15	.11	.34	3.89	.34	.48	.51	T	.47	.37	.01	.05	.22	.76	.27
PEPEEKEO MAKAI 144		11.69	.34	.72	.13	.13	.10	1.22	.87	.83	.21	.39	.14	.17	.22	.27	1.05	.03	.25	.05	.45	1.50	.02	.61	.18	.01	.22	.03			.12	.55	.88
PIIHONUA 89	A	27.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.60
POHAKULOA 107	A	.94		.27	.24																	.43									*	*
PUAKO 95.1	A	.38			.03																					.35							
PUU KIHE 120	A	2.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.65
PUU LAAU 102.1	A	.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.90	*	
PUU LEHUA 73	A	1.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.55	
PUU MALI 113	A	.21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.21	
PUUOKUMAU 167	A	5.05	.15	.10		*	*	*	1.20	.38	.08	.10	.01	*	*	.54	.31	.02	.10	.04	*	*	1.25	.01	.15	.05	.06				.18	.32
PUU OO 82		11.08	.38	.21	.19	.12	.10	.20	.61	.23	.03	.36	.01	.02	.08	.12	.46	.10	.10	.07	.17	4.65	.12	.04	.52	.20	.35	.50	T		.30	.14	.70
PUU WAAWAA 94.1	A	2.55				1.11			.05					T			.39					T				.26	.72				.02	
SADDLE ROAD 1 84	A	24.72	*	*	7.62	*	*	*	*	*	*	*	4.70	*	*	*	*	*	*	2.40	*	*	*	*	*	*	10.00	*	*	*	*	*	*
SOUTH POINT CORRAL 3	A	1.17	*	*	*	*	*	*	*	*	*	*	*	.30	*	*	*	*	*	*	*	.75	*	*	*	*	*	*	.09	*	*	*	.03
UMIKOA 118		3.04		.51	.39	.08		*	*	*	.48	.02	.06			.13	.05			.02	.01	1.17	.01	.02	.02						*	.07
UPOLU POINT USCG 159.2		2.44	T	.12			T	.41	.13	.19	.01	.05		.10	.03	.17	.37	.01	T	T	.15	.36	.02	.02	T	.08	T				.08	.14
WAIAKEA SCS 88.2		15.82	1.32	2.21	.52	.16	.07	.51	1.07	.89	.30	.59	.15	.13	.41	.10	.79	.14	.13	.20	.28	3.28	.27	.45	.19	.05		.42		T	.04	.88	.27

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN 02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	20	0.8	6.4	19	E	27+	90	81	75	86	0	7	16	5	2	0	30	52	7.8
HONOLULU, OAHU, WBFC	6	14.1	15.0	30	NE	08	76	70	57	70	17	9	2	0	0	0	28	70	5.9
KAHULUI, MAUI, WB AIRPORT	5	12.7	13.6	33	E	11	80	74	56	76	12	6	2	0	0	0	20	78	4.8
LIHUE, KAUAI, WB AIPPORT	6	11.5	12.5	26	E	15	82	77	67	78	4	16	5	0	0	0	25	54	7.2

See reference notes following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	75	70	69	71	74	74	72	72	75	70	74	73	72	71	68	72	74	73	74	75	76	74	74	74	71	73	75	72	73	75	74	72.9
	MIN	58	57	57	55	56	58	61	60	58	56	54	56	59	59	58	59	58	54	54	62	58	58	57	58	56	54	52	51	56	58	60	57.0
KILAUEA POINT 1133	MAX	80	82	82	83	82	82	81	81	82	82	81	81	81	82	81	80	82	81	82	81	82	81	81	82	81	84	88	82	83	82	81	81.8
	MIN	70	73	74	73	73	72	70	71	69	73	69	60	72	73	70	74	70	73	68	73	70	70	69	74	73	74	74	75	71	72	70	71.4
LIHUE WB AP 1020.1	MAX	85	84	84	85	85	85	85	85	85	85	84	84	85	85	84	85	85	85	85	84	85	85	84	84	85	87	88	86	86	86	86	85.0
	MIN	75	72	72	75	75	74	75	75	74	74	76	73	75	73	73	75	75	75	74	74	74	74	74	72	74	72	70	71	75	76	75	73.9
MAKAHUENA POINT 940.1	MAX	85	85	85	85	86	87	85	86	85	85	86	86	85	82	85	85	86	86	87	86	85	84	86	86	87	86	93	93	92	92	89	86.5
	MIN	75	71	71	72	74	74	73	76	72	74	76	75	75	75	71	72	74	72	77	74	69	71	75	77	73	72	71	74	73	76	74	73.5
MANA 1026	MAX	92	90	90	88	87	90	92	91	91	92	90	88	88	89	90	90	90	91	90	89	89	88	87	89	86	90	91	91	91	91	90	89.7
	MIN	69	68	68	69	68	69	69	69	69	69	70	69	69	67	68	68	60	68	67	68	68	68	66	69	72	70	70	70	68	68	68	68.3
NIU RIDGE 1035	MAX	86	85	82	83	84	85	84	85	84	83	84	85	84	83	85	84	84	84	85	85	84	85	85	85	86	87	85	86	86	86	87	84.7
	MIN	65	63	61	62	63	64	63	64	63	62	63	65	63	61	64	62	63	63	64	63	62	64	63	62	63	64	63	65	64	65	65	63.3
WAIAHI LOWER 1054	MAX	79	79	78	78	80	78	78	79	79	78	72	77	78	79	79	77	80	79	79	79	79	80	79	79	79	79	81	83	83	80	80	78.9
	MIN	69	66	66	65	65	67	72	70	69	70	69	68	67	70	68	70	65	67	68	70	68	69	67	67	70	67	66	65	68	68	69	67.9
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	85	85	86	86	86	87	87	88	86	88	88	87	86	86	87	84	85	87	86	87	87	86	86	87	88	88	88	86	87	86	85	86.5
	MIN	73	69	68	68	69	70	72	74	70	71	70	74	74	74	71	71	70	69	73	74	71	71	70	69	69	72	68	68	69	70	71	70.7
HONOLULU WBFC 703	MAX	88	87	89	88	87	88	87	88	86	87	87	86	85	85	87	84	86	86	86	86	86	86	87	87	90	88	88	92	90	90	91	87.4
	MIN	75	72	72	73	74	74	74	76	72	75	76	75	74	73	74	75	74	74	75	75	74	73	73	73	74	76	73	75	77	77	77	74.3
HONOLULU SUBSTA 704	MAX	82	81	84	84	83	83	83	84	82	84	83	83	83	82	83	83	83	83	83	84	84	84	84	84	83	81	81	85	83	82	82	83.0
	MIN	73	71	71	73	74	73	75	76	73	76	76	76	73	74	74	75	75	76	75	75	73	71	72	73	75	74	73	74	75	75	74	74.0
KAHUKU 912	MAX	84	84	83				85	84	85	85	83			84	84	83	83	84			84	84	84	83	84			86	85	84	84	84.0
	MIN	75	74	71				73	76	74	74	74			72	72	71	73	74			74	70	71	71	71			68	75	74	72	72.7
KANEOHE MAUKA 781	MAX	82	83	82	83	84	83	84	82	83	82	82	83	82	84	81	83	81	82	84	80	81	82	84	83	83	81	82	83	85	83	83	82.6
	MIN	75	70	71	72	72	72	73	73	71	71	72	74	73	72	72	73	73	74	74	74	74	72	74	72	72	71	69	71	72	74	72	72.4
LUALUALEI 804	MAX	88	87	88	90	89	89	90	88	88	88	88	88	87	86	86	86	86	88	88	89	88	88	89	89	89	89	88	89	86	88	88	88.0
	MIN	77	73	72	74	72	75	74	75	75	75	76	77	74	76	74	75	73	74	74	75	75	75	76	75	70	71	72	70	75	76	74	74.2
MAKAPUU POINT 724	MAX	80	87	80	80	86	86	86	87	80	86	80	80	79	80	79	81	79	87	81	79	80	86	86	80	82	88	88	88	84	80	84	82.9
	MIN	63	72	71	69	72	73	73	73	70	72	71	73	69	66	71	67	66	72	73	73	70	72	73	71	71	73	75	75	73	72	72	71.2
OPAEULA 870	MAX	80	79	83	84	81	84	84	79	82	81	83	80	80	78	78	78	80	83	79	78	78	78	80	81	83	81	83	84	87	83	81	81.1
	MIN	69	67	67	66	64	66	69	70	68	68	68	67	69	69	68	68	68	66	68	69	68	68	67	67	67	67	65	68	67	68	68	67.5
PRI WAHIAWA 820.2	MAX	85	81	83	86	86	86	87	84	85	83	87	83	84	86	81	83	84	85	82	85	85	84	85	85	87	84	89	88	88	85	86	84.9
	MIN	70	67	66	65	66	66	66	71	68	70	70	69	68	70	68	69	68	66	66	71	68	68	69	67	66	66	70	65	67	68	69	67.8
WAIALUA 847	MAX	86	84	85	86	87	86	86	85	86	85	86	85	84	84	84	84	85	85	84	85	85	85	85	85	87	86	89	88	91	87	85	85.6
	MIN	68	66	65	66	65	64	68	71	67	68	66	67	70	69	68	67	67	65	69	72	73	68	68	67	65	66	71	67	66	66	67	67.5
WAIKIKI 717.2	MAX	87	86	87	88	87	87	88	88	82	86	88	87	87	87	86	87	86	86	87	87	87	86	85	85	88	87	88	89	88	85	86	86.7
	MIN	69	73	70	74	74	74	75	76	72	72	74	76	75	72	73	75	73	74	76	75	74	76	72	73	74	73	71	71	73	72	74	73.4
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	83	82	82	83	84	82	84	86	84	81	86	84	83	82	83	83	79	83	83	82	83	83	83	83	87	84	84	85	84	84	83	83.3
	MIN	76	76	70	69	69	71	76	77	72	71	72	71	75	75	73	73	71	71	71	75	72	72	72	72	71	72	70	70	73	72	71	72.3
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	79	79	79	79	79		79	81	81	81	79	79	75	79	79	79	78	78	78	73	78	79	79	79	81	81	78	81	81	81	81	79.1
	MIN	62	63	64	63	62		63	62	62	65	63	63	62	61	61	61	67	66	65	67	65	64	64	64	65	64	64	64	64	64	64	63.6
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	64	61	59	61	64	62	63	66	69	64	72	74	70	63	57	66	64	65	71	63	72	67	63	62	62	68	67	68	68	67	70	65.5
	MIN	47	46	43	43	47	45	52	53	49	53	53	59	50	49	49	50	45	45	55	54	49	48	44	42	45	46	52	49	52	50	52	48.9
HALEAKALA SUMMIT 338.4	MAX	50	52	48				59	56	59	55	62			61	58	58	60	60	57	53	58	57	59	60	59			61	60	59	57	57.4
	MIN	42	39	37				45	45	42	44	37			39	43	40	43	44	44	39	45	38	39	41	42			40	42	43	40	41.4
HANA AIRPORT 355	MAX	84	82	82	84	84	83	84	84	83	83	84	84	83	83	83	83	82	82	83	81	81	83	83	83	85	84	83	83	85	81	84	83.1
	MIN	72	70	68	68	68	70	72	73	71	71	71	73	73	71	70	71	70	71	73	73	69	69	68	71	73	73	70	73	70	71	71	70.9
KAANAPALI AIRPORT	MAX	85	84	85	86	86	87	86	88	87	86	88	86	85	86	82	87	86	86	85	84	86	86	86	87		88	88	88	87	85	88	86.1
	MIN	73	72	69	69	69	72	69	72	71	71	70	65	74	72	73	74	71	71	74	74	72	70	71	62		72	71	70	72	73	72	71.0
KAHULUI WB AP 398	MAX	88	88	87	88	88	88	91	89	87	92	89	87	89	85	88	89	87	91	87	87	88	88	88	91	90	92	93	91	88	89	85	88.6
	MIN	73	72	70	66	72	72	74	73	72	70	68	74	73	72	72	72	72	73	74	74	72	71	72	67	70	70	70	67	74	73	72	71.5
KAILUA 446	MAX	77	79	77	79	80	81	78	80	80	77	79	79	79	79	75	80	79	80	79	79	78	79	79	80	80	80	81	80	81	80	80	79.2
	MIN	69	66	66	67	68	69	69	69	67	68	67	69	68	68	65	70	67	68	69	69	67	67	66	68	69	69	66	70	69	68	69	67.9
KEAWAKAPU BEACH 260.2	MAX	95	94	90	89	90	90	91	93	92	88	90	93	91	93	92		92	90	90	94	93	89	91	91	91	89	91	91	90	89	92	91.1
	MIN	68	70	65	65	65	67	70	69	64	70	65	66	66	70	68		70	65	70	71	66	65	66	69	68	70	69	68	65	68	68	67.5
KULA SANATORIUM 267	MAX	78	76	72	71	74	72	74	75	75	74	74	76	75	75	72	75	73	74	75	77	76	73	73	72	74	75	75	75	76	73	74	74.3
	MIN	61	61	59	60	60	61	62	60	61	60	60	57	58	59	60	60	60	58	59	62	59	59	59	60	61	63	59	58	57	58	57	59.6
LAHAINA 361	MAX	89	89	86	86	85	86	87	88	88	87	89	87	89	92	88	88	85	86	88	90	89	87	87	87	88	87	90	88	86	87	87	87.6
	MIN	72	72	69	69	69	71	73	71	71	71	70	68	71	73	72	70	70	68	71	72	70	70	71	71	71	72	72	71	69	69	69	70.6

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
WAILUKU 392	MAX																																
	MIN								71	71	72	73			71	72	73	72	73	74	74	72	72	72	72	73	71		71	74	73	72	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	84	84	83	84	84	84	82	83	81	82	84	83	84	84	81	83	82	84	83	83	81	84	83	83	85	84	85	85	85	81	84	83.3
	MIN	66	65	64	65	67	67	68	69	65	68	68	66	67	67	65	67	68	67	69	69	64	67	65	65	66	67	66	67	67	68	68	66.7
HAWAII VOLCNS NP HQ 54	MAX	69	70	68	70	70	70	66	70	71	69	70	79	68	70	66	67	70	68	75	68	66	68	69	71	73	67	69	74	75	74	69	70.0
	MIN	55	56	53	55	55	57	59	57	58	59	55	55	55	58	55	55	58	57	61	61	54	56	56	50	59	59	54	56	50	57	54	56.1
HILO WB AIRPORT 87	MAX	83	84	84	83	84	83	83	83	83	84	83	83	85	83	83	83	85	88	83	83	84	81	85	86	84	86	85	85	80	85	79	83.6
	MIN	68	68	65	66	67	70	72	70	67	70	67	69	68	68	66	67	69	68	72	68	66	68	68	66	69	69	66	68	67	67	67	67.9
KAINALIU 73.2	MAX	80	81	77	79	82	81	81	80	79	78	78	79	80	78	78	79	77	77	78	82	83	78	80	77	80	81	79	79	80	80	78	79.3
	MIN	66	64	63	64	64	65	67	68	65	68	65	65	66	65	65	66	66	65	65	66	66	65	65	64	65	65	66	65	65	67	66	65.4
KAMUELA 192.2	MAX	74	74	75	75	74	74	73	72	74	72	74	73	72	74	73	73	73	72	75	73	73	71	72	72	80	77	82	81	74	72	74	74.1
	MIN	60	60	58	60	62	61	61	61	60	60	61	58	60	60	60	61	60	62	60	62	59	60	61	56	59	54	57	61	60	60	60	59.8
KAMUELA AIRPORT 191	MAX	76	76	76	76	77	76	76	73	74	75	74	75	73	77	73	75	73		79	75	76	75	74	75	79	78	79	76	76	72	74	75.4
	MIN	50	52	58	59	59	59	59	57	58	61	53	50	59	58	47	55	59		56	62	45	62	52	53	49	54	62	58	56	56	56	55.8
KEAAU 92	MAX	82	81	82	83	83	83	83	81	81	82	82	85	85	85	80	81	83	81	85	85	85	83	82	83	85	85	85	85	84	80	81	82.9
	MIN	64	67	66	67	67	67	67	70	68	69	67	67	67	67	67	64	67	68	65	65	65	66	68	67	67	68	68	68	68	68	67	67.0
KEALAKEKUA 26.2	MAX	80	80	79	79	80	80	81	80	78	78	78	78	80	77	79	79	77	77	80	83	83	78	78	75	80	81	78	79	81	80	78	79.2
	MIN	66	66	64	63	65	66	66	67	65	69	66	65	66	65	66	66	66	67	65	67	68	67	67	65	65	67	68	66	67	68	66	66.1
KOHALA MISSION 175.1	MAX	82	81	82	82	83	83	80	80	72	82	81	78	81	82	77	81	80	80	80	79	77	80	81	81	83	83	83	84	82	78	81	80.6
	MIN	67	66	68	69	70	70	70	70	66	68	71	70	69	69	68	68	70	69	72	71	68	68	68	67	68	68	69	70	70	69	70	68.9
KONA AIRPORT 68.3	MAX	88	88	84	84	88	87	84	83	84	82	82	84	88	84	83	83	82	82	85	86	84	84	83	83	84	86	86	85	85	84	83	84.5
	MIN	68	68	70	70	66	66	66	67	69	68	68	69	67	68	68	68	68	70	68	68	69	70	69	69	69	67	67	68	68	68	68	68.1
KULANI CAMP 79	MAX	67	66	62	69	65	65	64	65		68	68	68	65	66	63	60	66	66	71	71		66	67	66		67	68	66	69	67		66.3
	MIN	48	51	46	46	58	52	40	60		52	51	50	52	54	53	48	58	47	47	44		48	52	44		44	47	45	44	45		49.1
MAUNA KEA BEACH 98	MAX	92	90	87	85	87	87	85	90	92	88		93	91	94	91	90	84	87	86	85	94	88	90	85	88	86	88	89	90	86	90	88.6
	MIN	76	76	70	73	73	75	77	78	75	74		69	76	76	71	75	74	76	75	77	77	76	74	69	72	72	78	74	73	76	76	74.4
MAUNA LOA SLOPE OBS	MAX	50	48	49	52	54	58	59	57	54	62	63	63	61	55	58	59	62	65	52	57	62	60		58					63	62	57	57.7
	MIN	34	35	31	33	35	40	36	39	39	36	43	40	39	40	41	40	44	46	41	40	37	40		43						41	39	38.9
MOUNTAIN VIEW 91	MAX	78	76	77	81	81	79	74	75	72	77	81	77	76	81	75	79	79	77	83	75	76	80	74	80	81	76	77	82	82	72	77	77.7
	MIN	64	62	61	60	62	65	67	65	64	64	62	62	61	65	63	59	59	63	64	67	61	61	63	60	60	66	61	62	62	64	60	62.5
NAALEHU 14	MAX	85	83	82	82	82	84	84	84	92	79	82	82	82	82	80	78	79	82	82	85	85	82	80	82	84	84	84	84	82	77	80	82.1
	MIN	70	69	69	69	69	66	66	61	69	69	71	71	71	71	71	70	71	70	70	68	68	69	70	69	71	71	69	69	68	70	69	69.2
OOKALA 223	MAX	82	81	81	82	82	83	81	81	83	81	81	78	83	82	80	82	81	81	81	81	79	81	78	81	82	83	84	84	84	79	81	81.4
	MIN	68	66	67	70	70	71	70	73	69	69	73	62	64	69	65	68	69	71	71	71	70	69	68	69	70	70	68	70	70	69	69	69.0
OPIHIHALE 2 24.1	MAX	78	81	77	79	80	80	80	77	78	77	78	78	81	79	79	75	75	78	81	84	77	75	75	81	80	80	78	81	80	77	77	78.6
	MIN	65	62	61	62	62	64	65	65	66	66	63	64	62	64	66	64	66	62	63	65	64	65	60	61	62	66	64	64	61	65	67	63.7
PAHALA 21	MAX	83	84	81	83	84	85	84	84	82	82	82	83	85	88	82	79	82	82	86	83	79	82	81	83	86	78	80	83	84	80	82	82.6
	MIN	63	63	62	62	64	65	65	66	65	66	67	65	65	65	69	66	67	65	67	70	70	64	65	60	66	70	67	65	66	67	66	65.6
UPOLU POINT USCG 159.2	MAX	86	83	84	84	84	84	82	82	83	84	84	84	85	83	80	84	83	83	84	82	82	83	83	83	86	86	87	87	86	87	84	83.9
	MIN	70	70	70	70	72	71	71	71	69	69	69	72	71	70	69	69	71	70	70	70	69	69	71	70	72	72	73	70	70	70	71	70.4

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.35	.34	.37	.33	.50	.38	.29	.31	.39	.44	.33	.28	.31	.36	.36	.28	.37	.39	.19	.32	.30	.30	.35	.33	.37	.36	.17	.25	.36	.43	.50	10.61
	WIND	191	186	148	85	99	109	130	110	130	115	101	130	137	139	148	116	90	92	104	128	118	107	106	88	92	65	33	30	62	115	237	3541
	MAX	92	90	90	91	92	92	91	92	91	90	88	87	85	89	88	89	90	90	89	90	89	90	90	92	92	91	94	91	95	92	91	90.4
	MIN	71	69	69	70	70	70	71	73	71	71	71	70	71	71	70	71	70	70	71	73	70	70	70	70	69	72	71	69	69	70	69	70.4
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.31	.26	.30	.27	.30	.34	.29	.27	.39	.32	.28	.40	.42	.35	.36	.36	.30	.30	.30	.30	.39	.34	.38	.45	.31	.06	.15	.23	.35	.37	.39	9.84
	WIND	51	38	36	25	30	39	31	55	57	45	43	60	70	59	59	56	33	32	32	55	50	40	44	34	20	27	16	24	28	30	46	1260
	MAX	92	89	92	89	92	95	92	92	95	91	92	92	93	94	93	93	89	89	89	92	95	95	94	95	92	92	92	93	93	94	-	92.3
	MIN	70	70	67	69	70	70	72	72	70	70	71	70	69	70	70	70	70	70	70	71	70	70	70	71	70	73	72	72	71	76	-	70.5

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUGAR CO.
ANAHOLA 1111 A	0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985 A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934 A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1	0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927 A	0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110 A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006 A	1030	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 9A5	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050 A	2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALEI	1	22 09	159 3A	690		WI		S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131 A	2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 A0	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092 A	310A	01	KAWAIHOO	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104 A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112 A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 9A4	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134 A	4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135 A	4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 1A	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO.
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936 A	A7A2	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994 A	A750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137 A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935 A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020 A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1 R	5580	02	LIHUE	2	21 59	159 21	103	M10	M10	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 9A0.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965 A	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M + H 1001	6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROSS 1083 A	6433	01	WAIMEA	3	22 07	159 36	3500		M10		S	U S GEO SURVEY
MOLOAA 1145 A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		M10		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051 A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	6893	01	LIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013 A	8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004 A	8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930 A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990 A	8949	02	KOLOA	2	21 58	159 31	2100		MO			MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065 A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931 A	9955	02	KOLOA	2	21 5A	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761 A	0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807 A	0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J. L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A		C	EWA PLANTATION CO
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881 A	1384	05	WAIALUA	5	21 33	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
HUKULOA 725.2 A	1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A	C	U S COAST + GEODETIC
*HONOLULU WBFC 703 R	1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	M10	M10		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A		C	H S P A EXP STATION
KAALAKEI 72A.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883 A	2462	01	KOOLAULOA	1	21 31	157 5A	800		WI			WAIAHOLE WTR CO LTD
KAHUKU 912 A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838 A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10					GEORGE H. SWIFT
KAPALAMA 773 A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841 A	3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2A	3741	05	WAIALUA	5	21 34	157 59	1180		WI			WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3	3825	02	KOOLAUPOKO	1	21 40	158 00	1050				C	HAWAII NATIONAL GUARD
KEMOO CAMP 8 855 A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C + F OFFICER HEDG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL A	5650	04	WAIANAE	4	21 29	158 08	1500		WI			U S NAVY
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240					MILNOR LUM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796 A	5766	0-	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2 A	5782	04	OAHU	4	21 29	158 12	A00		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM.
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870 A	7150	05	WAIALUA	5	21 3A	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1	7933	03	EWA	3	21 25	157 58	240				C	JAMES MUMENO
PORTLOCK ROAD 72A.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2 A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 834 A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709 A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900					JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713 A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863 A	8945	05	WAHIAWA	5	21 30	158 03	85A		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837 A	896A	01	KOOLAUPOKO	1	21 28	157 53	745		8A			WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847 A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798 A	9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 803 A	9238	04	WAIANAE	4	21 29	158 09	1575		WI			CAPITAL INVEST CO
WAIAWA 836 A	9261	03	EWA	3	21 28	157 56	800		MO			WAIAHOLE WTR CO LTD
WAIKANE 885 A	9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE RESV. 723.2 A	9495	02	HONOLULU	2	21 18	157 45	170		WI			BOARD OF WTR SUPPLY
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO 79A A	9521	01	KOOLAUPOKO	1	21 21	157 44	60		8A			ST DIV WTR + LAND DEV
WAIMEA 892 A	9593	05	WAIALUA	5	21 38	158 04	830		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750 A	9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563 A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 5A2.6	3046	01	MOLOKAI	1	21 04	156 52	60				C	W. J. CARSTEN
KAUNAKAKAI 536 A	3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSPITA
KEONELELE PLNS 551 A	A394	01	MOLOKAI	1	21 12	157 12	560		WK			MOLOKAI RANCH, LTD.
KUALAPUU 53A A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542	6130	01	MOLOKAI	1	21 0A	156 A8	20		8A			H S P A
MAUNALOA 511 A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL + LIBBY
MOLOKAI AP 52A	653A	01	MOLOKAI	1	21 09	157 06	A50	8A	8A		C	ALOHA AIRLINES
PUUOHOKU RANCH 5A2.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
ISLAND OF MOLOKAI												
WAIKOLU 540 A	9404	01	MOLOKAI	1	21 08	156 55	3550		TW		C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690 A	3130	01	LAHAINA	1	20 52	157 00	1650		WI		C	DOLE COMPANY
KAUMALAPAU HARBOR 658 A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672 A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	DOLE COMPANY
LANAIHALE 684 A	5301	01	LAHAINA	1	20 49	156 53	3370		WI		C	STATE DIV OF FISH & GAME
MAHANA 694 A	5704	01	LAHAINA	1	20 53	156 55	1430		MO			DOLE COMPANY
MALAUEA 676 A	6012	01	LAHAINA	1	20 46	156 55	1150		WI		C	DOLE COMPANY
WAIAKEAKUA 685 A	9021	01	LAHAINA	1	20 47	156 52	2040		WM			DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252 A	0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477 A	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434 A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432 A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	U OF MICH MT HKALA OBSY
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423 A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM + SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5 A	1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480 A	1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI PINEAPPLE CO
HONOKOHUA 493 A	1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494 A	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341 A	1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374 A	2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WB AP 398 R	2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	U S WEATHER BUREAU
KAILIILI 436 A	2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA A46	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375 A	3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM + SUG CO
KEANAE 346 A	4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAU	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM + SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380 A	4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442 A	5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466 A	5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497 A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332 A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377 A	7066	04	LAHAINA	4	20 51	156 36	800		MO			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM + SUG CO
PANILEIHULU 259.2 A	7674	02	HANA	2	20 41	156 08	3570		WI			KAUPO RANCH CO.
PAUWELA 490 A	7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2 A	8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 A1	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343 A	8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUU KUKUI MAKAI 472 A	8444	04	LAHAINA	4	20 55	156 38	2500		MO			PIONEER MILL CO LTD
PUUNENE 396	85A3	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM + SUG CO
PUU PAKI 352	8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM + SUG CO
TWIN GATES 261.3 A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333 A	8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301 A	8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364 A	8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484 A	9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482 A	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449 A	9332	01	HANA	1	20 52	156 12	1200		WM			E MAUI IRR CO LTD
WAIKAMOI DAM 336 A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390 A	9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256 A	9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75 A	0040	05	N KONA	5	19 38	155 47	5220		MO			GREENWELL RANCH
AWINI 182.1 A	0190	01	N KOHALA	1	20 10	155 43	1870		WI			KOHALA DITCH CO LTD
EAST HONOKANE 183.2 A	0450	01	S KOHALA	1	20 07	155 43	4240		MO			KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52 A	1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPIULA 117 A	1060	01	HAMAKUA	1	19 56	155 24	5770		MO			KUKAIAU RANCH CO
HALEPOHAKU 111 A	1065	02	HAMAKUA	2	19 46	155 28	9220		MO			STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168 A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87 R	1492	02	S HILO	2	19 43	155 04	27	M10	M10	M10	C J	U S WEATHER BUREAU
HOLUALOA 70 A	1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68 A	1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1 A	1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71 A	2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72 A	2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1 A	2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12 A	2249	03	KAU	3	19 08	155 3A	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29 A	2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5 A	3048	03	KAU	3	19 02	155 40	1375		WI			HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36 A	3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5 A	3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193 A	3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 1A	155 29	1700				C	HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1A50	8A	8A		C	MISS AMY GREENWELL
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV. OF FORESTRY
KEHENA 181.2 A	4245	01	N KOHALA	1	20 07	155 45	38A0		WI			KOHALA DITCH CO LTD
KIOLAKAA A + F 6 A	A625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2 A	A632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA 179.1 A	4670	01	N KOHALA	1	20 14	155 47	309		7A			KOHALA SUGA9 CO
KOHALA MAULILI 176 A	A675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196 A	4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206 A	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76 A	5018	05	N HILO	5	19 35	155 27	8300		WI		C	U S WEATHER BUREAU

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2645				C	STATE DEPT OF L + N RES
LANIMAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV. OF PARKS
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS 38	6198	05	HAMAKUA	5	19 32	155 35	11146	MIO	MIO			MAUNA LOA OBSERVATORY
MIDDLE MOLOKOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600		MO			HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			HAWAIIAN RANCH CO, INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 147	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU ALNE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440		MO			STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUOKUMAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A			W. H. SHIPMAN, LTD
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	OILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400		WI			HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305				C	FEDERAL ELECTRIC CORP
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830				C	KAHUA RANCH

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960,

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- – No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

- \+ And also on an earlier date or dates.

- ++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data.

- * Amount included in following measurement, time distribution unknown.

- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

- B Adjusted to a full month.

- J "Supplemental Data" table.

- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

- R Amounts from recording gage.

- T Trace, an amount too small to measure.

- V Includes total for previous month

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.

- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

- MO Gage read once monthly; usually on the last day.

- OC Gage readings at periods varying from a few weeks to several months.

- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

- SS Observation time is near sunset.

- VAR Observation time is variable.

- WI Gage read weekly or irregularly only.

- WM Gage read weekly and last day of month.

- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

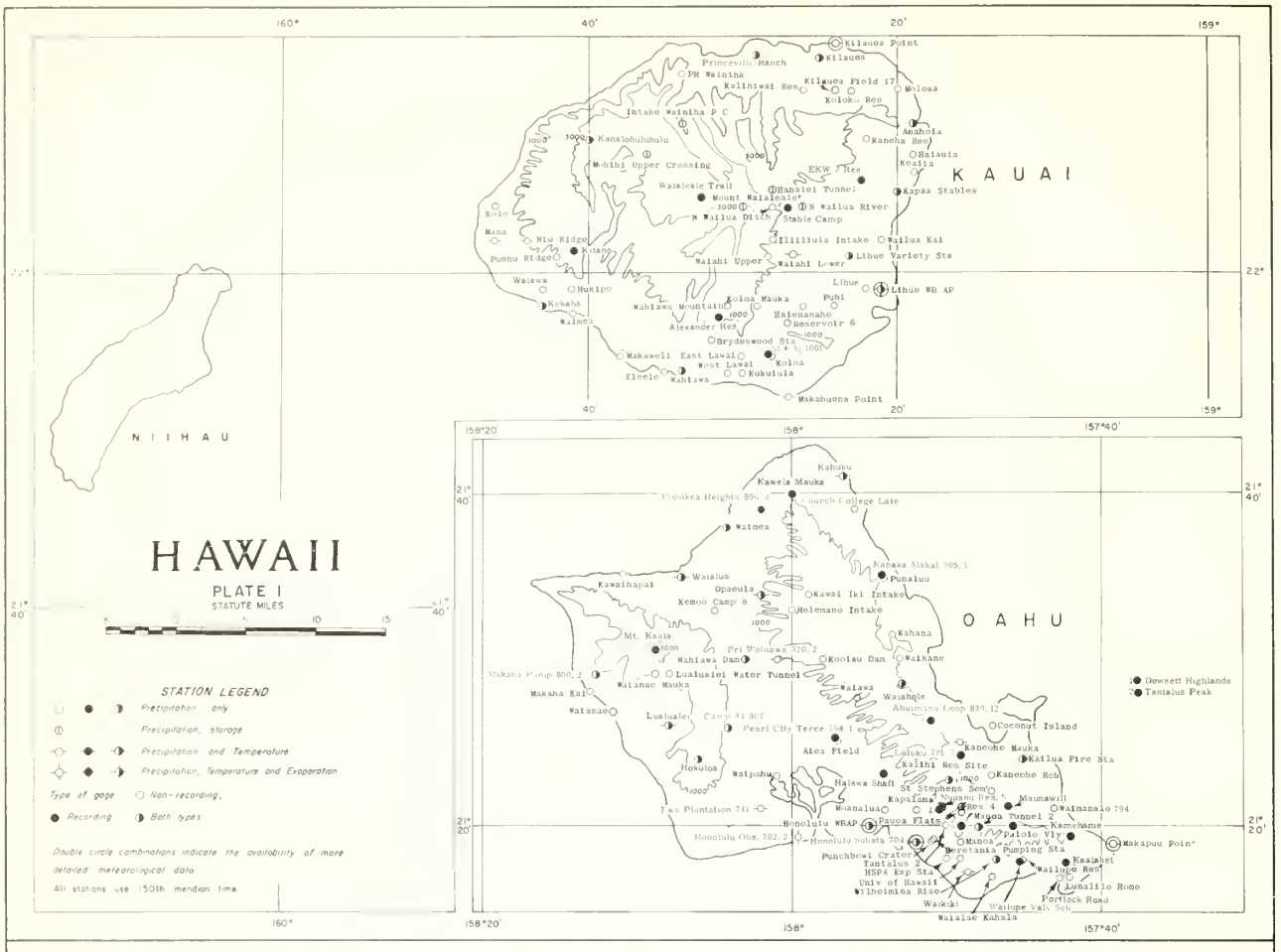
Stations appearing in the tables with no data were either missing or received too late to be included in this issue,

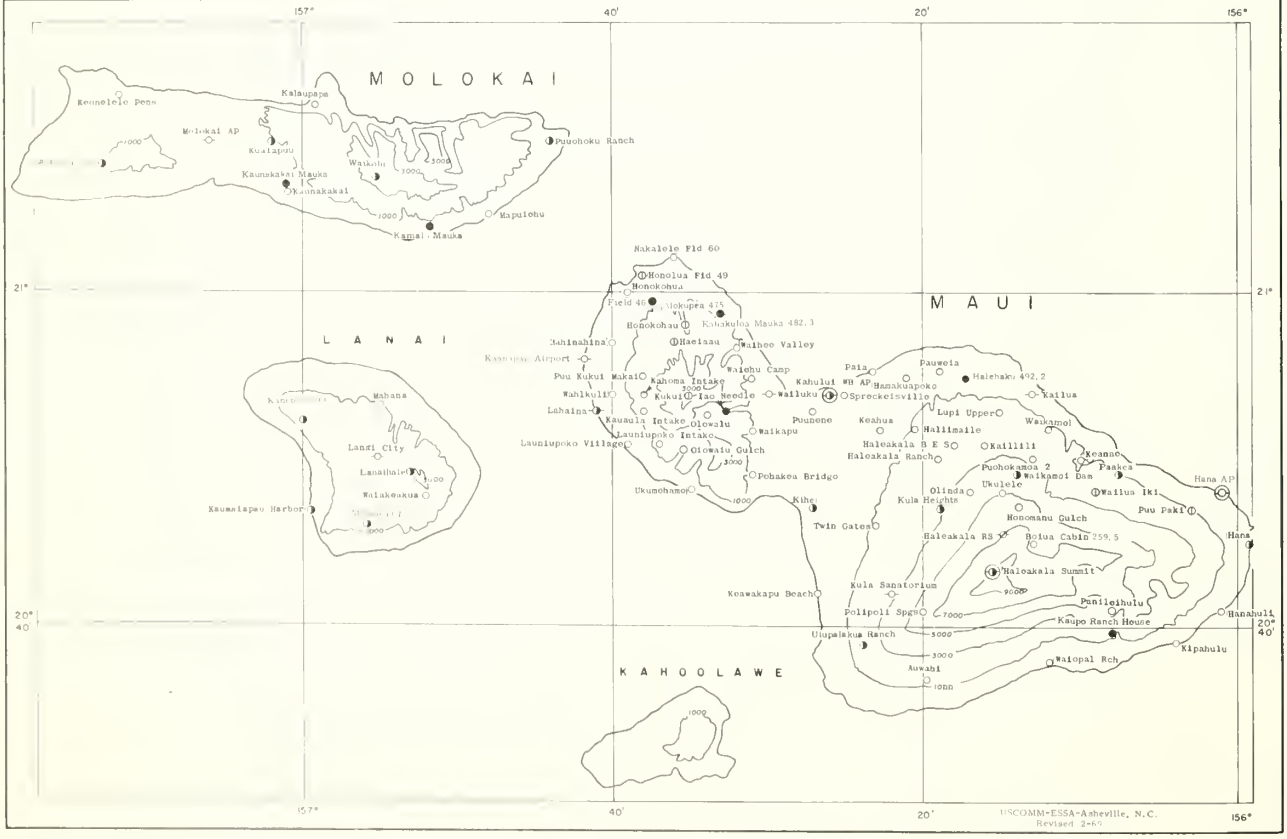
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

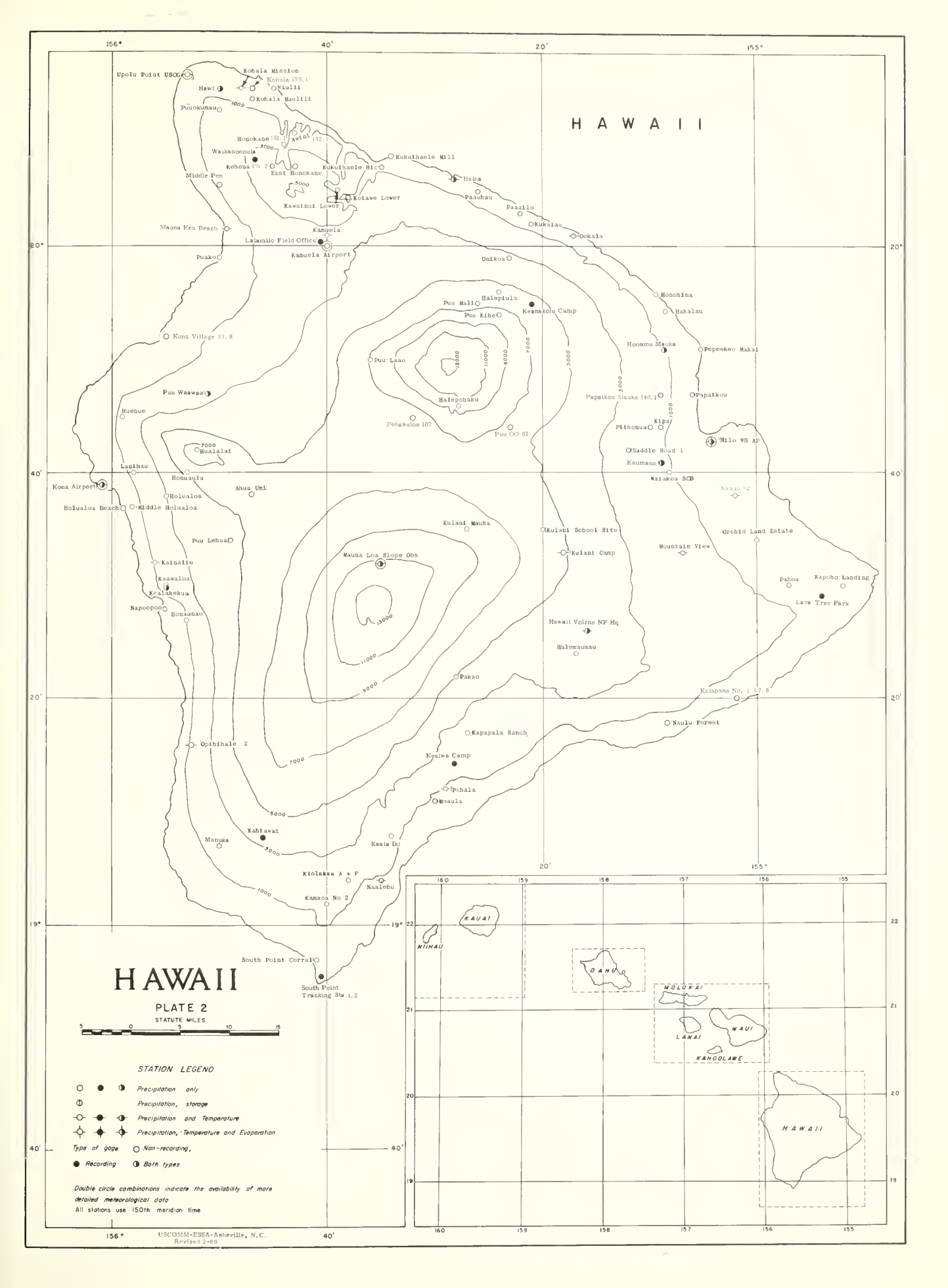
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-10/29/69-890


HAWAII
PLATE I
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
Kilauea Point
Kilauea
Princeville Ranch
PM Wainiha
Kalihiwai Res
Kilauea Field 17
Moloaa
Koloko Res
Intake Wainiha P C
Kanaiolulululu
Anahola
Kaneha Res
Haiauia
Keatia
Mohihi Upper Crossing
EKW 3 Res
Waialeale Trail
Hanalei Tunnel
Kapaa Stables
Mount Waialeale
N Wailua River
N Wailua Ditch
Stable Camp
Koko
Mana
Niu Ridge
Kutano
Puehu Ridge
Illiliuia Intake
Wailua Kai
Waiahi Upper
Waiahi Lower
Lihue Variety Sta
Waiawa
Hukipo
Lihue
Lihue WB AP
Kokaha
Wahiawa Mountain
Kolea Mauka
Puhi
Waimea
Alexander Res
Haienanaho
Reservoir 6
Brydeswood Sta
Makaweli East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Pupukea Heights 894.4
Church College Late
Waimea
Kawaihapai
Waialua
Punaluu
Kanaka Makai 905.1
Opaeula
Kawai Iki Intake
Kemoo Camp 8
Holemano Intake
Kahana
Mt. Kaala
Pet Wahiawa 420.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Ridge 860.2
Luaiualei Water Tunnel
Waianae Mauka
Waiawa
Makaha Kai
Waiahole
Ahuimanu Loop 839.12
Waianae
Luaiualei
Camp 21 807
Pearl City Terce 754.1
Coconut Island
Aiea Field
Kaneohe Mauka
Kailua Fire Sta
Hokuloa
Waipahu
Halawa Shaft
Kalihi Res Site
Kaneohe Rch
St Stephens Sem
Kapalama Nuuanu Res 5
Maunawili
Res 4
Waimanalo 794
Moanalua
Pauoa Flats
Kamehame
Honolulu WBAP
Honolulu Obs. 702.2
Honolulu Sub sta 704
Manoa
Paloio Vly
Makapuu Point
Punchbowl Crater
Beretania Pumping Sta
Tantalus 2
Kaalaket
HSPA Exp Sta
Univ of Hawaii
Wilhelmina Rise
Waikiki
Lunalilo Home
Portlock Road
Waialae Kahala
Waiupe Vall. Sch
Dowsett Highlands
Tantalus Peak


MOLOKAI
LANAI
MAUI
KAHOOLAWE
Kennelelo Penn
Kalaupapa
Molokai AP
Kualapuu
Puuohoku Ranch
Waikolu
Kaunakakai Mauka
Kaunakakai
Mapulehu
Kamalo Mauka
Nakalele Fld 60
Honolua Fld 49
Honokohau
Honokohau
Kahakuloa Mauka 482.3
Mahinahina
Haeiaau
Waihee Valley
Kaanapali Airport
Waiehu Camp
Paia
Pauwela
Haiku 492.2
Kahului WB AP
Hamakuapoko
Wahikuli
Kahoma Intake
Kuiui
Iao Needle
Wailuku
Sprockeisville
Kailua
Lahaina
Kauaula Intake
Olowalu
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Waikapu
Pounene
Keahua
Lupi Upper
Halimaile
Waikamoi
Haleakala R E S
Kaililili
Haleakala Ranch
Keanae
Puohokamoa 2
Waikamoi Dam
Paakea
Ukulele
Olinda
Kula Heights
Waiilua Iki
Puu Pakii
Hana AP
Honomanu Gulch
Haleakala RS
Hoiua Cabin 259.5
Hana
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Polipoli Spgs
Panileihulu
Kaupo Ranch House
Hanawuli
Ulupalakua Ranch
Kipahulu
Waiopai Rch
Auwahi
Kaumalapau Harbor
Lanai City
Lanaihale
Mahana
Manele
Ukumehame
Kihei
Twin Gates
Pohakea Bridge
Launiupoko Village
Kaanapali Airport
USCOMM-ESSA-Asheville, N.C.
Revised 2-69


HAWAII
PLATE 2
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
USCOMM-ESSA-Asheville, N.C.
Revised 2-69
Upolu Point USCG
Kohala Mission
Kohala 179.1
Hawi
Niulii
Kohala Mauliili
Puuokumau
Honokane 181.1
Awini 182.1
Waikanonoula
Kehena 191.2
East Honokane
Kukuihaele Mill
Kukuihaele Hic
Middle Pen
Hapaa
Koiawe Lower
Kawainui Lower
Paauhau
Pauuilo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Puu Mali
Halepiula
Keanakolu Camp
Puu Kihe
Hakalau
Kona Village 93.8
Puu Laau
Honomu Mauka
Pepeekeo Makai
Puu Waawaaka
Halepohaku
Papaikou Mauka 140.1
Papaikou
Huehue
Pohakuloa 107
Puu OO 82
Kipu
Piihonua
Hilo WB AP
Saddle Road 1
Hualalai
Kaumana
Lanihau
Honuaula
Waiakea SCD
Kona Airport
Ahua Umi
Holualoa
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Mauna Loa Slope Obs
Kulani Camp
Mountain View
Kainaliu
Kaawaloa
Pahoa
Kapoho Landing
Kealakekua
Lava Tree Park
Napoopoo
Honaunau
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 47.8
Naulu Forest
Opihihale 2
Kapapala Ranch
Keaiwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kaala Iki
Kiolakaa A + F
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1,2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
AUGUST 1969
Volume 65 No. 8

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S.I. TECH. & AGR. DIV.

CLIMATOLOGICAL DATA

Station		Temperature													Precipitation									
											No. of Days								Snow, Sleet			No. of Days		
											Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														.97	- 1.92			.0	0		0	0	0
KANALOHULUHULU 1075		73.2	57.2	65.2		78	29+	54	10+		0	0	0	0	1.65		.31	9	.0	0		5	0	0
KAPAA STABLES 1104	A														1.28		.17	11+	.0	0			0	0
KILAUEA FIELD 17 1135	A														4.13	- 3.56			.0	0				0
KILAUEA POINT 1133		82.3	72.4	77.4		85	23+	68	13		0	0	0	0	3.96		.82	10	.0	0		14	1	0
KOLOA 936	A														3.70	- 2.82			.0	0				0
LIHUE W8 AP 1020.1	R	84.9	75.0	80.0	1.6	86	10+	72	26+		0	0	0	0	.86	- 1.63	.24	30	.0	0		4	0	0
MANA 1026		89.5	67.7	78.6	.3	92	18	66	26+		16	0	0	0	.19	- .80	.19	11	.0	0		1	0	0
N WAILUA DITCH 1051	A														10.70				.0	0				
PH WAINIHA 1115															5.81	- 4.84	1.04	27	.0	0		16	3	1
PUEHU RIDGE 1040															1.43		.80	9	.0	0		3	2	0
WAHIAWA 930	A														.62	- 1.90			.0	0			0	0
WAIAHI LOWER 1054		79.5	67.3	73.4		83	8	65	24+		0	0	0	0	8.30		.83	31	.0	0		25	5	0
WAIMEA 947															.00	- 1.04	.00		.0	0		0	0	0
ISLAND				74.9											3.11				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															.02		.02	26	.0	0		0	0	0
HONOLULU W8FC 703	R	90.4	76.0	83.2	3.8	92	27+	73	29+		28	0	0	0	.11	- .78	.05	26	.0	0		0	0	0
KAHUKU 912	A	M	M	M		87	11	70	29+		0	0	0	0	1.37	- 1.29			.0	0			0	0
KANEOHE MAUKA 781		83.0	71.7	77.4	.3	86	9	69	30+		0	0	0	0	4.53	.24	.76	21	.0	0		14	1	0
KOOLAU OAM 833															10.13	1.60	1.10	30	.0	0			7	2
LUALUALEI 804		88.3	74.9	81.6		90	29+	72	25		4	0	0	0	.19		.07	20	.0	0		0	0	0
MAKAPUU POINT 724		80.4M	71.2M	75.8M		84	9	69	30+		0	0	0	0	.53	- .49	.12	15	.0	0		2	0	0
NUUANU RES 4 783															2.54	- 8.05	.54	15	.0	0			1	0
OPAEULA 870	A	81.9	66.9	74.4	1.4	87	10	64	20		0	0	0	0	2.95	- .96	.40	27	.0	0		17	0	0
PALOLO VALLEY 718															9.90	- 1.84	1.30	30	.0	0		24	8	2
PRI WAHIAWA 820.2	A	84.9	67.3	76.1		88	11+	64	23+		0	0	0	0	1.20				.0	0			0	0
PUNALUU 884	A														3.32				.0	0				0
WAHIAWA OAM 863	A														.85				.0	0			0	0
WAIAHOLE 837	A														7.66	- 4.20			.0	0				
WAIALUA 847	A	85.8	66.4	76.1	- .6	89	10+	63	24+		0	0	0	0	.56	- .86	.17	27	.0	0		2	0	0
WAIKIKI 717.2		86.6M	74.2M	80.4M		90	8	70	19		1	0	0	0	.60		.12	26	.0	0		2	0	0
WAIPAHU 750	A														.25	- .98			.0	0		0	0	0
ISLAND				78.1											2.74				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														.56	- .64	.15	15	.0	0		1	0	0
MAPULEHU 542															3.84	.92	.60	30	.0	0			1	0
MAUNALOA 511	A														.11	- 1.09	.04	26+	.0	0		0	0	0
MOLOKAI AP 524		83.7	71.9	77.8		87	17	70	26+		0	0	0	0	.19		.09	25	.0	0		0	0	0
ISLAND				77.8											1.18				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	77.5M	64.3M	70.9M	- 1.0	83	4	61	30		0	0	0	0	.53	- 1.25			.0	0			0	0
ISLAND				70.9											.53				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														4.69	.01	1.30	14	.0	0		12	3	1
HALEAKALA RS 338		64.1	45.9	55.0		68	29+	41	22		0	0	0	0	3.31		1.03	14	.0	0		8	2	1
HANA AIRPORT 355		83.2	70.1	76.7		85	25+	67	21		0	0	0	0	7.93		1.09	20	.0	0		24	4	1
HONOKOHUA 493	A														4.23	1.65			.0	0				0
KAANAPALI AIRPORT		86.4M	70.9M	78.7M		89	28	68	11+		0	0	0	0					.0	0				
KAHULUI W8 AP 398	R	87.9	71.1	79.5	.5	92	8	63	9		2	0	0	0	.71	.36	.23	6	.0	0		2	0	0
KAILUA 446		78.9	67.8	73.4	.2	80	31+	65	20		0	0	0	0	15.45	4.14	2.99	15	.0	0		24	13	3
KEANAE 346	A														32.60	10.85			.0	0				
KIPAHULU 258															10.13	1.67	1.42	1	.0	0		24	8	1
KULA SANATORIUM 267		74.2	58.8	66.5	- .2	76	30+	57	14+		0	0	0	0	.93	- 1.34	.40	3	.0	0		3	0	0
LAHAINA 361		87.0	70.2	78.6		89	16+	68	24+		0	0	0	0	.00	- .42	.00		.0	0		0	0	0
PAIA 406															2.47	.55	.34	26	.0	0		1	0	0
WAILUKU 392			71.8M	M				70	26+				0	0	*		.24	6	.0	0			0	0
ISLAND				72.6											7.50				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		83.2M	66.0M	74.6M	.1	85	28+	64	25+		0	0	0	0	10.31	5.67	2.89	15	.0	0		15	5	3
HAWAII VOLCNS NP HQ 54		70.0	56.2M	63.1M	- .5	77	2	54	30+		0	0	0	0	10.59	3.00	3.53	15	.0	0		17	5	3
HILO W8 AIRPORT 87	R	83.6	68.8	76.2	.4	87	27	67	9		0	0	0	0	17.50	6.05	5.10	15	.0	0		24	7	4
HUEHUE 92.1	A														.00	- 2.72	.00		.0	0		0	0	0
KAINALIU 73.2		79.4	64.9	72.2		82	17	62	22		0	0	0	0	7.90	.21	1.60	19	.0	0		15	5	2
KAMUELA AIRPORT 191		75.5M	58.3M	66.9M		79	25	44	12		0	0	0	0	1.74		.82	16	.0	0		3	2	0

See Reference Notes Following Station Index

Station	Temperature												Precipitation									
									No. of Days								Snow, Sleet			No. of Days		
									Max.		Min.											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	82.0	67.3	74.7	- .4	85	28+	65	25+	0	0	0	0	21.26	9.51	3.95	16	.0	0		25	13	5
KEALAKEKUA 26.2	78.8	65.8	72.3		82	17+	63	22+	0	0	0	0	8.06		1.58	4	.0	0		12	6	3
KONA AIRPORT 68.3	84.9	67.5	76.2		88	17+	66	30+	0	0	0	0	1.76		.43	24	.0	0		6	0	0
KUKUIHAELE HIC 199													9.71	3.74	2.30	15	.0	0		18	6	3
KULANI CAMP 79	M	49.4M	M				43	31	0	0	0	0	15.84		5.62	15	.0	0		18	6	3
MAUNA KEA BEACH 98	88.5	74.0	81.3		94	26	70	27+	6	0	0	0	.36		.14	15	.0	0		3	0	0
PAHALA 21	81.7	65.8	73.8	- .2	86	15	62	24	0	0	0	0	3.44	.38	1.63	15	.0	0		5	2	1
POHAKULOA 107 A													1.26				.0	0			0	0
PUAKO 95.1 A													.64		.28	16	.0	0		3	0	0
PUU WAAWAA 94.1 A													1.27	- .86	.83	21	.0	0		2	1	0
UMIKOA 118													13.07	8.01	6.55	15	.0	0				2
WAIAKEA SCO 88.2													32.33		8.73	16	.0	0				
ISLAND			73.1										8.72				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 26TH AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 33° ON THE 31+ AT 2 STATIONS

GREATEST TOTAL PRECIPITATION: 43.00 INCHES AT PIIHONUA 89, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 9 STATIONS

GREATEST ONE-DAY PRECIPITATION: 9.56 INCHES ON THE 16TH AT KIPA 89.2, HAWAII

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII AUGUST 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																	
ANAHOLA 1111	A	.97		*	*	.08	.01			.03	*	*	.16		.01	.11		*	*	.02	.10	.03	.10	.03	*	*	.07	.09	.11	.01	.01	*	*
BRYDESWOOD STA 985	A	3.64	.06	*	*	.32	.04		T	.01	*	*	1.02	.42	.04	.12	.02	*	*	.34	.01	.42	.02		*	*	.14	.01	.56	.09	T	*	*
EAST LAWAI 934	A	3.28	.12	*	*	.39	.18	.02	.05	.05	*	*	.05	.11	.08	.18	.16	*	*	.20	.04	.17	.22	.03	*	*	.47	T	.48	.06	.02	*	*
ELEELE 927	A	.47	.04	*	*	.09	.02				*	*	.02	T	T	.02						.01			*	*	.02		.25			*	*
HALAULA 1110	A	2.21	.29	*	*	.10				.16	*	*	.57		.04	.09		*	*	.04	.35	.02	.03	.20	*	*	.05	.05	.18		.04	*	*
HALENANAHO 1006	A	3.16	.18	*	*	.48	.05		.05		*	*	.49	.09	.04	.15		*	*	.29	.12	.19	.30	.06	*	*	.38		.29			*	*
HUKIPO 945		.18																					.18									
LILILIULA INTAKE 1050	A	10.32	.55	*	*	1.01	.05	.11	.14	.70	*	*	1.33	.48	.25	.28	.05	*	*	1.33	.18	.58	.93	.08	*	*	.65	.24	.81	.39	.18	*	*
INTAKE WAINIHA PC 1086	A	8.17	*	*	*	1.48	*	*	*	.65	*	*	1.90	*	*	1.20	.39	*	*	*	.29	*	*	*	*	*	2.66	*	*	*	*	*	*
KALIHIWAI RES 1131	A	6.92	.17	*	*	.85	.15	.05	.04	.38	*	*	.89	.22	.05	.48	.06	*	*	1.14	.02	.27	.17	.23	*	*	.25	.64	.61	.41	.04	*	*
KANALOHULUHULU 1075		1.65	.02	.05	.09	.03				.03	.31		.02			.12	.07	.09	.03	.02		.12			.01	.29	.02	.02	.17			.06	.08
KANEHA RESERVOIR 1092	A	3.64	.42	*	*	.16	.02	.03	.05	.20	T	*	.40	.15	.04	.22		*	*	.10	.20	.20	.50	.32	*	*	.15	.16	.24	.05	.03	*	*
KAPAA STABLES 1104	A	1.28	.17	*	*	.09				.06	*	*	.17	.02		.08		*	*	.09	.13	.13	.09		*	*	.03	.02	.15	.02	.03	*	*
KEALIA 1112	A	1.01	.11	*	*	.09				.10	*	*	.15		.01	.11		*	*	.05	.09		.04		*	*	.02	.10	.09		.03	*	*
KEKAHA 944		.06			.06																											
KILAUEA 1134	A	2.47	.12	*	*	.42	.02	.01	.02	.14	*	*	.24	.02	.11	.24	.01	*	*	.14	.07	.06	.06	.04	*	*	.23	.04	.38	.08	.02	*	*
KILAUEA FIELD 17 1135	A	4.13	.22	*	*	.30	.03	.02	.01	.34	*	*	.67	.04	.05	.23	.02	*	*	.53	.06	.20	.13	.17	*	*	.19	.12	.43	.13	.04	*	*
KILAUEA POINT 1133		3.96	.24	.12	.06			.10	.06	.01	.20	.82	.04	.22	.10		.42		.07	.03	.05	.14	.02		.08	.20	.02	.35	.16		.14	.29	.02
KOLO 1033		.23																				.08	.15									
KOLOA 936	A	3.70	.15	*	*	.81	.11	.03	.03	.21	*	*	.11	.05		.23	.20	*	*	.24	.10	.30	.21	.15			.42		.29	.04	.02	*	*
KOLOA MAUKA 994	A	4.73	.16			.62	.06		.10		*	*	.76	.15		.31		*	*	.64	.19	.25	.34	.11	*	*	.33		.63		.08	*	*
KOLOKO RES 1137	A	4.35	.14	*	*	.47	.05	.05	.17	.20	*	*	.57	.02	.06	.42	.04	*	*	.48	.19	.36	.18	.01	*	*	.15	.42	.36	.18	.03	*	*
KUKUIULA 935	A	1.75	.03	*	*	.32	.06	T	.04	.04	*	*	.04	.02	.01	.11	.19	*	*	.07		.25	.05	T	*	*	.25		.27			*	*
LIHUE VARLETT STA	A	3.33	.05	.53	.05	.03	.02		.04	.04	*	.03	.18	.02	.01	.16	.07	.08		.15	.16	.18	.49	.26	.02	.04	.01	.05	.16		.03	.13	.34
LIHUE 1020	A	1.65	.02	*	*	.06	.02	.03	.02	.10	*	*	.10	.03	.04	.04	.02	*	*	.11	.10	.03	.12	.01	*	*	.04	.02	.12	.01	.01	*	*
LIHUE WB AP 1020.1	R	.83	T	.08	T	T	.02		T			.05	T	.01	.03	.02	.14	.01		.01	.10	T	T		T	T	T	.11	.01		T	.24	T
MAKAHUENA POINT 940.1		1.08		.16	.01	.01	.08		.03				.01			.11	.09			.01	.12	.17	.03					.05	.01		.14	.09
MAKAWELI 965	A	.16									.05		.01																		.05	
MANA 1026		.19											.19																			
NOMINI UPR CROSS 1083	A	2.82		.24		.05				.44		.15	.10		.15	.15	.05		.10		.15	.05			.10	.15	.05	.44	.15		.15	.15
MOLOAA 1145	A	1.39	.05	*	*	.12	.01	.04		.06	*	*	.12		.04	.06		*	*	.09	.03	.25	.01		*	*	.14		.18	.17	.02	*	*
MOUNT WAIALEALE 1047		30.22	.35	.98	.39	.43	.12	.16	.43	1.18	.79	1.85	2.80	.63	1.65	.35	1.14	3.23	2.40	.24	1.65	1.18	.83	.12	.47	.32	.43	1.22	1.61	.16	.75	1.22	1.14
NIU RIDGE 1035		.29			.26						.03																					
N WAILUA DITCH 1051	A	10.70	.56	*	*	.90		.20		.66	*	*	1.50	.80	.30	.66		*	*	1.40	.30	.40	.40	.30	*	*	.60	.16	.96	.30	.30	*	*
PH WAINIHA 1115		5.81	.02	.34	.12	.35	.05	.01	.14	.07	T	*	.61	.08	.05	.42	.01	.30	.05	.08	.10	.28	.14	.03		.07	.17	.34	1.04	.18	T	.21	.54
PRINCEVILLE RANCH 1117		6.01	.07	.30		.51	.02	.02	.30	.25	.02	.03	.45	.04	.05	.29		.23	.24	.13	.19	.18	.58	.09		.02	.21	.08	.61	.25	.02	.25	.58
PUEHU RIDGE 1040		1.43			.52						.80											.11										
PUHI 1013	A	1.64	.06			.10	.04		.05	.07	*	*	.09	.05	.03	.08	.03			.15	.16	.06	.17				.22		.23		.05		
RESERVOIR 6 1004	A	3.92	.17			.68	.06		.15				.57	.16		.23				.28	.32	.24	.16				.36		.47		.07	*	*
WAHIAWA 930	A	.62	.07	*	*	.14	.05				*	*	.01	T	.12	.02	T	*	*	T		.01		T	*	*	.07		.43	T		*	*
WAHIAWA MOUNTAIN 990	A	1.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.15
WAIAHI LOWER 1054		8.30	.28	.49	.29	.28	.19	.06	.10	.46	.17	.13	.66	.11	.09	.23	.01	.73	.12	.23	.18	.26	.78	.17	.10	.17	.07	.06	.60	.23	.03	.19	.83
WAIAHI UPPER 1052		10.52	.48	.52	.49	.39	.13	.04	.17	.48	.36	.17	.32	.30	.05	.25	.02	1.09	.26	.15	.10	.53	.94	.02	.11	.23	.27	.17	.73	.39	.15	.11	1.10
WAIAWA 943		.17			.13								.04																			
WAILUA KAI 1065	A	.75	.06	*	*	.20	.03			.05	*	*	.05			.06		*	*	.05		.06	.12					.07			*	*
WAIMEA 947		.00																														
WEST LAWAI 931	A	1.34	.07	*	*	.22	.04		T	.03				T	.01	.08	.14	*	*	.03	T	.21	.07	T	*	*	.18	T	.23	.03	.02	T	T
* * * ISLAND OF OAHU																																
AIEA FIELD 625 761	A	1.94		*	*	.33					*	*	.06		.12			*	*	.32	.21	.20	.09		*	*	.18	.18	.15		.10		
BERETANIA PUMPING STA		.90	.02	.03		.05		T					.03		.05	.23	.02		.04	T	.04	.11				.02	.03	.03	.03		.06	.08	.03
CAMP 84 807	A	1.38	*	.02	*	.01	*	*	.01	*	1.25	*	.01	*	.05	.01															.02	*
CHURCH COLLEGE LAIE		7.55	.10	.15		.05	.10	.60	.10	.10	.05	.10	.20	.10		.05			.40	.10	.05					.10	.10	1.20	.50	1.10	1.00	1.20
COCONUT ISLAND 840.1		2.55	.06	.10	.01	.02	.04	.03		.01			.16		.02	.13	.48			.11	.21	.18	.16			.01	.27	.01	.13	.01	.07	.04	.29
EWA PLANTATION 741		.04		.01													.01										.02				T	
HELEMANO INTAKE 881	A	4.45	*	*	*	.49	*	*	T		*	*	.07	*	*	.47	*	*	*	.60	*	*	.59	*	*	*	.38	*	*	*	1.85	*	*
HOKULOA 725.2	A	.54	*	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.19	*	*	*	*	*	*	*	.10	*	*	*	*	.23
HONOLULU OBSERV 702.2		.02																										.02				
HONOLULU WBFC 703	R	.11	T	T	T	T	T	T	T			T	T	T	.01	T	.01	T	T	.01	.01		T	T	T	T	.05	T	T	.02	T	T
HONOLULU SURSTA 704		.65		.02									.05		.17			.02			.13		.10					.06		.07	.03	
H S P A EXP STA 707		1.87		.12	.10	.01		.02					.05		.10	.20	.10	.11	.02		.20	.07	.35			.04	.01	.06	.07		.08	.08	.08
KAHANA 883	A	17.33	*	*	*	1.25	*	*	*	*	*	*	2.71	*	*	*	*	*	*	5.18	*	*	*	*	*	*	4.30	*	*	*	*	*	3.89
KAMUKU 912	A	1.37	*	*	*	.23	.03		.01	.01	*	*	.03	.03	.04	.02	.03	*	*	.17		.03	.09		*	*	.04	.15	.22	.21	.03	*	*
KAILUA FIRE STA 791.3		.76	.02	.04			.02	T	T					.08	T	T	.09	.05	.01	T	.10	.02	T	T	T	.02	.07	.11	T	T	.04	.04	.05
KALIHI RES SITE 777		0.66	*	*	*	.56	.04	.08	.08	.06	.04	.46	.10		.08	.12	.94	.14	.28	.44	.22	.44	.18	.08	.02	.04	.28	.08	.42	.06	.12	.50	.80
KANEOHE MAUKA 781		4.53		.41	.01	.04	.14	.03	.02		.02		.22		.05	.09	.36	.49		.10	.17	.18	.76	.02	.04			.20	.26	.16	.08	.20	.48
KANEOHE RANCH 838	A	2.55		*	*	.04	.14	.13	T	*	*	*	.28	.06	.03	.04	*	.65	.10	.11	*	.22	.18	.10	.02	*	*	*	.09	.01	*	.35	*	*
KAPALAMA 773	A	2.20																										.20	.03				
KAWAIHAPAI 841	A	.55	.01	*	*	.07					*	*	.10	.02	.01			*	*	.01									.50	.70	1.00			
KAWAI IKI INTAKE 880.2	A	11.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.50	*	*
KEMOO CAMP 8 855	A	.43	*	*	*	.03					*	*	.14			.01	.45	*	*	.01		.01			*	*	.05	.05	.10	.03		*	*
KOOLAU DAM 833		10.13	.11	.25	.16	.12	.02	.12	*	.25	*	.05	.15	.04	.89	.44	.45	.05	1.03	.19	.44	.20	.27	.03	.22	.31	.50	.67	.92	.06	.12	1.10	.97
LUALUALEI 804		.19									*	*	.06		.01							.07						.04	.01				
LUALUALEI WTR TUNNEL	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00	*	*
LUNALILO HOME 724.2		*					.05								.19	*	.12		*	.08									.19	*	.06		*
MAKAHA KAI 796	A	.02		*	*	*	*	*	*	*	*	*	.02																				
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAKAPUU POINT 724		.53											.07		.07		.12	.01		.11									.04		.02	.07	.02
MANOA 712		6.75	.04	.52	.06	.04	.10	.18	.04			.04			.26	.36	.62	.08	.35	.28	1.01	.09	.65		.02	.11	.20	.33	.34	.02	.17	.33	.51
MANOA TUNNEL 2 716		12.52	.30	.36	.06	.08	.38	.20	.12	.02		.38	.08	.12	.40	.94	.88	.30	.74	.62	.88	.46	.56	.02	.09	.24	.62	.44	.84	.10	.52	.80	.98
MOANALUA 770		.95		*	*	.09	*	.01	.01	*	*	*	*	*	*	.27										.05	.02	.15	.18		.08	.03	.06
NUUANU RES 4 783		2.54	.02	.04								.16	.04	*	*	.06	.04	.54	.12	.02	.06	.18	.16	.20		.02	*	.10	.06	.24		.06	.10	.32
NUUANU RESERVOIR 5 775	A	0.61	.05	*	*	.46	.02	.03			*	*	.19	*	.26	.23	*	*	*	1.40	*	.77	.21	T	*	*	.44	.44	*	1.03	.14	*	.94
PAEULA 870	A	2.45	.10	.08	.10	.17	.03		.02				.05		.11	.10	.10	.05	.14	.10	.10	.28	.02			.15	.15	.13	.40	.18	.04	.10	.25
PALOLO VALLEY 718		9.90	.56	.24	.10	.02	.36	.10	.12	.04		.14	.08	.02	.16	.36	1.00	.10	.50	.16	.36	.72	.80	.02	.02	.16	.34	.26	.42	.14	.52	1.30	.78
PAUOA FLATS 784		15.52	.38	.08	.16	.22	.42	.12	.12			.48	.24	.02	.48	.62	1.98	.84	.52	.38	1.02	.54	.92	.02	.34	.24	1.14	1.08	.66	.08	.40	1.02	1.00
PORTLOCK ROAD 724.4		.63					.02	.03					.03	.01		.09		.02		.03		.04	.07			.04	.05		.03	.02	.04	.04	.07
PRI WAHIAWA 820.2	A	1.20		*	*	.07					*	*	.27		.06	.15	.01	*	*	.10		.12					.13	.03	.11	.15		*	*
PUNALUU 884	A	3.32	.12	*	*	.12	.03	.07	.25	.02	*	*	.53	.02		.02	.22	*	*	.26	.06	.16	.33	.01	*	*	.10	.14	.42	.28	.16	*	*
PUNCHBOWL CRATER 709	A	1.56	.03	.04	.05	.11		.03			.01	.02	.04		.05	.10	.06	.05	.05	.06	.02	.15	.10			.07	.11	.05	.04	.01	.08	.13	.10
ST STEPHENS SEM 788		3.22	.01	.03	.04	.12	.06	.11	T	T	T		.20	T	.04	.01	.67	.12	T	.05	.40	.36	.34	T		.01	.01	.17	.20	.01	.14	.09	.13
TANTALUS 2 780.5		10.73	.09	.36	.20	.10	.12	.25	.09	.06		.12	.28	.02	.33	.63	.70	*	*	1.39	.39	.38	.39	.02		.20	.66	*	*	2.20	*	*	1.95
UNIV OF HAWAII 713	A	2.02	.06	*	*	.25		.05	T		*	*	.04	T	.07	.17	*	*	*	.42	.25	.05	.26		*	*	.08	.14	.04	*	.14	*	*
WAHIAWA DAM 863	A	.85	.02	*	*	.14					*	*	.05	.01	.10	.01		*	*	.07		.02	.01		*	*	.15	.05	.13	.08	.01	*	*
WAIAHOLE 837	A	7.63	.05	*	*	.34	.12	.19	.19	.06	*	*	.77	.04	.32	.32	.25	*	*	1.06	.43	.70	.32	.02	*	*	.16	.26	.61	.18	.15	*	1.09
WAIALAE KAHALA 715		1.31	.10	.02	.04	.02	T		T	.01		.01	.05	.02	.05		T	.12	.02	.02	.07	.03	.07	T		.04	.01	.19	.11	T	T	.23	.08
WAIALUA 847	A	.52	T	.05		.03	T						.06	T	T		T			.05			T					.17	.04	T	.02	.13
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAIANAE MAUKA 803	A	1.74	*	.52	*	*	*	.01				*	*	*	.18	*	*	.04	*	*	*	.40	*	*	.13	*	*	*	.29	*	*	.17	*
WAIAWA 836	A	14.84	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.84
WAIKANE 885	A	9.15	*	*	*	.83	*	*	*	*	*	*	1.40	*	*	*	*	*	*	2.25	*	*	*	*	*	*	2.72	*	*	*	*	*	1.95
WAIKIKI 717.2		.60	.01	.09		*	*	T	T				.04	T	.02	.02	.01				.05	.05	.03		*	.03	.02	.12	T		T	.10	.01
WAILUPE RESV. 723.2	A	2.31	*	*	*	*	*	*	.40	*	*	*	*	*	.21	*	*	*	*	1.03	*	*	.01	*	*	*	*	*	*	.18	*	*	.49
WAIMANALO 794	A	1.09	*	.02	*	*	*	.04	*	*	*	*	.06	*	.02	.07	.03	*	.03	*	*	*	.20	*	*	.20	.06	*	.27	*	.03	*	.06
WAIMEA 892	A	2.61	.04	*	*	.20			.05		*	*	.25		.13	.10	.13	*	*	.32	.07	.02	T		*	*	.15	.41	.48	.22	.04	*	*
WAIPAHU 756	A	.25		*	*	.06					*	*	.07		.03			*	*	.01			.03						.04	.01			
WILHELMINA RISE 721		3.50	.20	.28	.04	.04	.06	.06	.06			.02	.08	.02	.18	.18	.24	.16	.10	.02	.26		.34				.18	.12	.02		.08	.54	.22

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																	
I NO OF MOLOKAI																																	
KAUNAKAKAI 536	A	1.10	*	*	.03	.01	*	*	*	.07	.13	.03	*	*	*	.13	*	*	.06	.04	.03	.01	*	.08	.11	*	*	.19	.02	.04	.12	*	*	.
KAUNAKAKAI 536	A	.00																															.
KEALAKEKUA PENS 551	A	.00																															.
KUALAPUU 534	A	.58						.03	.01			*	.03		.04	.06	.15		*	.02						*	.07	.03			.05	*	.09	.
KUALAPUU 534		3.82	.24		.05		.02	.06	*	*	*	.11		.30	.29	.44	.06	.30	.25	.10	*	.03	*	.12	.06	.07	.20	.22			.12	.60	.20	.
KUALAPUU 534																.04																	.
KUALAPUU 534	A	.11														.07																	.
KUKAI 2R 524		.19	1					T					T															.03		T			.
KUOPOKU RANCH 542.1		2.46	.04	.01	T			T	.04	.08	T	.13		.11	.10	.22	.02	.04	.17	.12	.10	.23	.04	T	.02	.22	.09	.26	.07	.03	.07	.08	.10	.
MIKOLO 540	A	3.47											.49											2.72			.56							.
* * *																																	
ISLAND OF LANAI																																	
KAUMEUU 690	A	.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.83	*	.03	.
KAUMALAPAU HARBOR 658	A	.26									*	*	.02										.20						.04				.
LANAI CITY 672	A	.53	.02	*	*	.07	T	T	T	.01		*	.21	.01					*	.09	.04	.01	T								.07		.
MANAIMALE 684	A	.94	*	.10	*	*	*	*	*	*	.25	*	*	*	*	*	*	.12	*	*	*	*	*	*	.36	*	*	*	*	*	*	.11	*	.
MANELE 694	A	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	*	.
* * *																																	
ALAMEA 676	A	1.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.14			.
MANEKAHA 685	A	.23																												*	*	.23	*	.
* * *																																	
ISLAND OF MAUI																																	
HAMI-252	A	.56		.17												.17				.15				.07									.
ALEKAKAIA 8 E S 434	A	4.69	.20	.13				.16					.08		.33	1.30	.64	.03	.06	.04	.08	.15	.12		.04		.32	.68			.10	.14	.03	.
ALEKAKALA RANCH 432	A	1.42	*	*	*	*	*	*	*	*	*	*	*	*	*	.75	.16	*	*	*	.15	*	*	*	*	*	.14	.22	*	*	*	*	*	.
ALEKAKALA RS 338		3.31	.21	.07	T			.01					.23		.15	1.03	.82	.23	T	.05	.10	T	.03				.18	.09			.05	.05	.01	.
ALEKAKALA SUMMIT 338.4		1.10	.16				T						.11		T	T	.35	*	*	.46	T	T	T			*	*	.02	T	T				.
HALIMAILE 463	A	2.40	.30	.08				.10	.09			*	.07	.01	.09	.33	.32	*	*	.08	.04	.01			.06	*	.13	.58	.02		.09	*	*	.
HAMAKUAPUKO 485		6.56	.27	.10	.06	.05	.02	.35	.50	.01	.03	.04	.07	.06	.02	.48	.95	.24	.05	.11	.84	.01	.06		.25	.01	.43	1.03	.06	T		.09	.37	.
HANA 324		5.97	.75	.12	*	.21	.13	.10	.15	.28		*	.55	.04	.12	.19	.20	.39	*	.54	.52	.33	.06				*	.67	.08	.39	.06		.09	.
HANA AIRPORT 355		7.93	.35	.11	.12	.17	.26	.10	.21	.19	T	.21	.41	.05	.14	.10	.78	.23	.44	.50	.04	1.09	.08		.01	.04	.32	.35	.35	.18	.18	.61	.31	.
HANAHULI 281		9.57	.91	.14	.91	.04	.12	.10	.23	.17	T	.05	.59	.27	.21	.14				1.52	.10	1.22	.05	.26	T		.30	.21	.79	.03	.02	.68	.55	.
HOLUA CABIN 259.5	A	3.57	.78	*	*	*	*	*	*	*	*	*	*	.19	*	*	*	1.62	*	*	*	*	*	*	*	*	*	*	*	.98	*	*	*	.
HONUOMAU 480	A	11.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.10	.
HONOMUA 493	A	4.23	.41	.04	*	.45	.07	.06	.16	.02	*	*	.09	.02	.07	.35	.35	*	*	.42	.03	.08		*	*	*	.27	.24	.12	.02		*	.96	.
HONOMANU GULCH 341	A	11.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.20	.
KAANAPALI AIRPORT		-						T	T						.02	.05					-						.01	T						.
KAHOMA INTAKE 374	A	7.17	*	1.52	*	*	*	*	*	*	*	*	.24	*	*	*	*	*	*	3.63	*	*	*	*	*	*	.23	*	*	*	1.55	*	*	.
KAHULUI AR AP 398	R	.71	T	*	.01	T	*	.23				.02	T	T	.11	.04	.06				.04	T		T	T	.06	.07	.02		T	T	.03	.02	.
KAILILI 426	A	14.89	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.89	.
KILUA 446		15.45	.95	.57	.49	.47	.05	.40	.47	.08		.25	.55	.06	.46	.55	2.99	.60	.32	.63	.61	.43	.21	.01	.28	.04	.65	1.09	.30	.15		.58	1.01	.
KAUALLA INTAKE 375	A	1.96	*	*	*	.53	*	*	*	*	*	*	.13	*	*	*	*	*	*	.37	*	*	*	*	*	*	.93	*	*	*	*	*	*	.
KEAMUA 410		.43	.02	.01	T			.01	T			T	.06	T	T	.02	.09	.01			.01						.07	.08			.05			.
KEANAE 346	A	32.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	32.60	.
KEANAKAPU 8RACH 260.2		.00																															.
KIHEI 321		1.04	T													.01	.01											.01					.
KIPAHULU 258		10.13	1.42	.20	.30	.24	.15	.16	.14	.30		.27		.11	.41	.14	.76	.90	.60	.25	.34	.59	.12	.09			.60	.47	.54	.06	.06	.51	.40	.
KULA HEIGHTS 323.2		.55	.10										.19			.02		.23														.01	.
KULA SANATORIUM 267		.95			.40	T		.07	.01			T	.12			T		.03	.04	T			.20	T								.08	.
MAHINA 361		.00																															.
MAUNIPOKO INTAKE 376	A	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.90	.
MAUNIPOKO VILLAGE 372	A	.00																															.
OLPI UPPER 442	A	18.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.80	.
OMINAHINA 466	A	2.67	.10			.12		.08	.14				.05		.15	.76	.14	.09	.22	.14					.05		.05	.25				.13	.20	.
PAKALELE -FLO 60-497	A	4.61	*	*	*	.60	*	*	*	*	*	*	.41	*	*	*	*	*	*	1.08	*	*	*	*	*	*	1.05	*	*	*	*	*	1.47	.
PULINDA 332	A	1.38	.02	*	*	.05	T	T	*	*	*	*	*	T	.09	*	*	*	*	.65	.15	T	.07	T	*	*	.15	.11	.02	T	.07	*	*	.
PUUALU 296		.02																													.02			.
PUUALU GULCH 377	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20	.
PAAKEA 350		25.52	2.58	.98	.75	.72	.24	1.12	.47	.50		.44	.88	.23	.82	.93	2.79	1.47	.90	1.63	1.50	.88	.40	.45	.68	.06	.49	.91	.51	.37	.13	.85	1.04	.
PAIA 406		2.47	.14	.07	.02	.03		.17	.27			.17	.01	.04		.33	.17	.02	.01	.01	.23				.03		.24	.34	.01			.02	.14	.
PANTEIMULU 259.2	A	2.25	*	*	*	*	*	*	*	*	*	*	*	*	.85	*	*	*	*	*	*	*	1.40	*	*	*	*	*	*	*	*	*	*	.
PAUWELA 490	A	8.07	.45	*	*	.47	.02	.60	.22	.09	*	*	.30		.25	.48	1.50	*	*	.64	.93	.02	.07		*	*	.95	.74	.11	.01	.01	.21	*	.
POHAKEA BRIDGE 307.2	A	.01	*	*	*	*	*	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.
POLIPOLI SPRINGS 267.2	A	3.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.10	*	*	*	*	*	*	.
PUOHOKAMOA 2 343	A	36.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	36.00	.
PUU KUKUI MAKAI 472	A	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00	.
PUUMENE 396		.23		.03				.05					.02			.04	.05			.03	.01						T	T						.
SPRECKELSVILLE 400.2		1.33	.06	.02				.18	.15			.05		T	.16	.18	.12	.01	T		.10						.15	.12			T		.03	.
WAIN GATES 201.3	A	.00																															.
WAKULELE 333	A	6.41	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.41	.
WAKUMEHAME 301	A	.00																															.
WAPALAKUA RANCH 250		1.25	.08			.18		.13					.05					.02		.02		.52	.25											.
WAMIKULI 364	A	.40																				.35	.05											.
WAIEHU CAMP 484	A	2.42	.06	*	.07	*	.02	.22	.46	*	*	.01	*	*	.02	.32	.19	*	*	.20	.32	*	*	*	.12	*	.07	.14	*	*	*	.10	.10	.
WAIHEE VALLEY 482	A	3.30	.37	.03	.03	.14	.06	.29	.10	*	*	.07	.04	*	.05	.30	.30	.03	*	.28	.20	*	*	*	.32	*	.12	.26	*	*	*	.24	.07	.
WAIKAMOI 449	A	24.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.10	.
WAIKAMOI DAM 336	A	17.00	2.03	*	*	1.40	.06	.88	*	*	*	*	*	.19	1.42	*	*	*	*	6.49	.45	.86	.31	.05	*	*	1.35	1.16	.09	.01	.25	*	*	.
WAIKAPU 390	A	.15	*	*	*	*	*	.05	.03	*	*	*	*	*	*	*	.05	*	*	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	.
WAILUKU 392		*	1	T	*	.01		.24	*	.16	*	*	T		.03	.04	.09	*	*	.09	.01					*	.06	.01			.01	*	*	.
AIOPAI RANCH 256	A	.09									*	*	.15	*	*	*	.38									*	*	.16						.
* * *																																		
ISLAND OF HAWAII																																	
AHUA UMI 75	A	.90	*	*	*	*	*	.76	.62	.07	*	*	*	.48	*	.17	.89	2.85	4.35	*	*	*	3.35	.47	.16	.03	.03	*	*	*	.69	.19	*	.12	.36	*	*	.
AWINI 182.1	A	17.59	1.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.
AST HONUKANE 183.2	A	23.76	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20.76	.
AINA 214		10.31	.22	.07	.23	.02		1.27	.42	.02		.01		.09	.81	1.44	2.89	.54	.28	.43	.06	.45	.01	.02	.11	.27	.33	.01		.05	.12	.09	.05	.
AKALAU 142		19.50	.73	.37	1.10	.07	.03	.33	.20	.24			.16	.28	.98	1.39	4.39	3.20	.63	.64	.86	.17	.17	.99	.30	.29	.67	.21		.12		.70	.28	.
ALEMAUMAU 52	A	3.94	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.94	.
ALEPIULA 117	A	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00	.
ALEPOHAKU 111	A	2.43	.05		.03	T	T					.09	T		.05	.25	.40	.62	.09	T	.02	.80	.02	T		.01								.
AWAII VOLCNS NP HQ 54		10.59	.68	.06	.25	.03	.02	.13	.03	.07	.01	T	.44	.13	.55	1.22	3.53	1.37	.36	.14	.06	.37	.10	.06	.10	.08	.27	.17	.04	.06	.04	.06	.16	.
AMI 168	A	6.21	.38	*	*	.35		.28	.09	.02	*	*	.08	.05	.29	.64	2.20	*	*	1.24	.09	.05		.01	*	*	.32	.08			.04	*	*	.
HILO AB AIRPORT 87	R	17.50	.16	.27	.41	.08	.18	.12	.20	.10		.34	.16	.37	1.66	2.01	5.10	.85	.83	1.93	.09	.05	.12	.34	.23	.72	.33	.01	.07	.28	.13	.07	.30	.
HOLUALOA 70	A	16.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.40	.
HUALALAI 78	A	1.18														.25	.22				1.36		.12				.93							.
KAUNUNAJ 27		13.51	.42	.60	.20	.93				.01	.04	.50	.40	.10	.34	.21	.10	.05	.20	2.05	1.80	.06	.08	2.17	.24	.15	2.08	.17			.13	.10	.08	.
KONOHINA 137		23.97	1.50	.35	1.28	.10	.05	.70	.27	.16			.17	.25	1.05	1.71	5.03	4.46	1.10	1.57	.61	.04	.11	.87	.35	.34	.61	.33		.14	.05	.65	.12	.
MOKANE 181.1	A	16.44	*	*	*	1.69	.02	.15	*	*	*	*	1.45	.08	1.15	3.47	4.07	*	*	2.69		.14		.05	*	*	.72	.15	.06	.11	.24	*	*	.
NOHU MAUKA 138		31.79	2.30	.78	1.24	.09	.19	1.12	.94	.10			.47	.38	.92	1.90	7.06	4.55	1.65	1.21	.72	.20	.23	.90	1.54	.71	1.17	.33		.18	.12	.35	.44	.
NOHU MAUKA 71	A	6.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.80	.
UALALAI 72	A	1.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.22	.
UEMUE 92.1	A	.06																															.
AALA IKI 12	A	6.35	.01		.01	T				.13	.06				T	.12	1.38	2.00	.30	.31	.27	.62	.22	.84	.05								.03	.
AAMALOA 29	A	7.30	.01	*	*	2.00		T		.01	*	*	*	1.15	.10	.88	.05	*	*	.18	.49	T	.07	.46	*	*	1.46	.15			.29	*	*	.
AINALU 73.2		7.90	.13	.05	.05	.40	.01	.04		.10		.70		.04	.18	.85	.31	.09		.05	1.60	.07	.14	.15	.42	1.45	.06	.16			.29	.04	.52	.
ALAPANA NU 1 67.8		6.54	.14	.01	.18	*	*	.04	*	.15	.01	.04	*	*	.66	*	3.54	.13	*	*	.73		.01	.01	.10	.07	.23	.20	.01	.05	.04	.10	.09	.
AMADA NU 2 5	A	5.08	*	.04	*	*	*	*	*	*	*	*	*	*	*	2.79	*	*	*	*	*	*	*	*	1.58	*	*	*	*	*	*	.07	*	.
AMUELA 142.2		3.00	.08	.02	.03			.11	.13				.10		.18	.51	.95	.33	.11			.03			.02		.03		.09	.05	.02	.10	.06	.
AMUELA AIRPORT 191		1.74	T					.01	.02						.04	.40	.50	.82	.02	.03	T	T					.05			T	T			.
APAPALA RANCH 36	A	3.29	*	*	*	.18	*	.10	.09	*	.23	*	*	*	.12	.82	*	*	*	.83	*	*	*	.42	*	*	.25	*	*	*	*	*	*	.
APOHO LANDING 93.5	A	11.25	1.70	*	*	*	*	*	*	*	1.45	*	*	*	*	*	1.91	*	*	*	*	*	*	4.01	*	*	*	*	*	*	2.12	*	*	.

See reference notes following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		32.29	1.66	.83	.57	.15	.17	1.36	.44	.15	.04		.84	.27	.77	2.14	7.40	8.50	1.02	1.18	.23	.33	.09	.33	1.13	.42	1.10	.20	.02	.20	.22	.14	.09
KAWAINUI LOWER 193	A	29.90	1.22	*	*	*	*	*	*	4.02	*	*	*	*	*	*	10.28	*	*	*	*	*	*	6.96	*	*	*	*	*	*	1.62	*	*
KEAAU 92		21.26	1.02	.26	.68		.02	.42	.40	.15			.20	.41	.68	2.70	3.33	3.95	.92	.85	1.70	.10	.08	.22	.60	.21	.58	.28	.07	.17	.12	.53	.61
KEALAKEKUA 26.2		8.06	.02	.03	T	1.58		T		T		1.32		.05	.22	.86	.09	.08		.10	.69	T	.09	.56	.21	1.31	.08	.18	T		.29	T	.30
KEHENA 181.2	A	14.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.10
KIOLAKAA A & F 6	A	14.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.80
KIPA 89.2	A	40.80	1.55	.76	.89	.09	.09	1.31	.97	.16	.07		1.63	.50	1.71	3.12	7.48	9.56	1.61	2.89	.40	1.60	.11	.90	1.48	.41	.91	.18	.02	.06	.14	.09	.21
KOHALA 179.1	A	7.86	.51	*	*	.68		.37	.20	.01	*	*	.13	.03	.25	.81	2.56	*	*	1.65	.10	.01		.02	*	*	.35	.12			.05	*	*
KOHALA MAULILI 176	A	6.55	.68	*	*	.60		.25	.27	.01	*	*	.34	.02	.33	1.01	2.80	*	*	1.34	.20	.03		.01	*	*	.34	.17		.01	.14	*	*
KOHALA MISSION 175.1		8.82	.55	.09	.57	.02		.34	.20	.01			.24	.04	.25	.75	2.86	.25	.53	.93	.12	T	T	.01	.04	.09	.28	.13		T	.06	.33	.13
KOIAWE LOWER 196	A	11.39	.88	*	*	*	*	*	*	1.42	*	*	*	*	*	*	6.00	*	*	*	*	*	*	2.49	*	*	*	*	*	*	.60	*	*
KONA AIRPORT 68.3		1.76				T			.05			T				.12	.05				.22	T	T		.05	.26	.43	.40					.13
KONA VILLAGE 93.8		.38															.05										.33				.05		
KUKAIAU 222		17.61	.36	.29	.41	.10	.04	1.28	.26				.05	.12	1.01	1.97	5.71	2.65	.25	1.04	.12	.11		.14	.48	.54	.19	.05		.03	.14	.22	.05
KUKUIHAELE MIC 199		9.71	.16		.18	.27	.01	1.00	.76	.16		.10	.04	.06	.55	1.87	2.30	.27	.32	.39	.10	.06			.14	.56	.14			.04	.07	.10	.06
KUKUIHAELE MILL 206	A	8.33	.10	*	*	.52	.02	1.17	.70	.02	*	*	.08	.05	.55	1.65	1.95	*	*	.64	.05	.13	.02	.07	*	*	.48			.03	.10	*	*
KULANI CAMP 79		15.84	.84	.84	.32	.04	.01	.02	.01	.03		.21	.20	.12	.60	1.65	5.62	2.80	.40	.27	.12	.42	.05	.14	.25	.08	.42	.12	.08	.05		.04	.09
KULANI MAUKA 76	A	4.92	.03		.10			.04		.04				.02	.74	1.86	1.44	.05	.05	.04	.23	.06		.07		.08		.04					.03
KULANI SCHOOL SITE 78	A	15.94	*	1.10	*	*	*	*	*	*	.64	*	*	*	*	*	*	1.60	*	*	*	*	*	*	1.70	*	*	*	*	*	*	*	*	*
LANIHAU 68.2		10.83	.18	.42	2.03	.11						.72					1.39				1.99	.65	.39	.10	.18	1.18	.06					.90	.19	1.24
MANUKA 2	A	3.04		*	*	.25	T		T							.05	.30	*	*	1.05	.09	.40	.09	T	*	*	.79	*	.02	T		*	*	
MAUNA KEA BEACH 98		.36															.14	.11				.01	.10						T				
MAUNA LOA SLOPE 085		1.00			.70										.03	.06	.06			.02	.10	T		.03									
MIDDLE HULUALOA 68.1	A	5.02	*	*	*	1.22	*	*	*	*	*	*	*	*	*	.91	.17	*	*	*	1.88	*	.22	*	*	*	.62	*	*	*	*	*	*
MIDDLE PEN 147.1	A	1.59	*	*	*	*	*	*	*	*	*	*	.10	*	*	*	*	*	*	*	*	.79	.70	*	*	*	*	*	*	*	*	*	*
MOAULA 18	A	2.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.30
MOUNTAIN VIEW 91		29.57	1.15	.36	.89	.02	.05	1.14	.72	.29	.05		.59	.25	1.60	2.47	5.42	6.11	1.44	1.26	.87	.33	.15	.37	.90	.30	.88	.45	.10	.22	.13	.49	.37
NAALEHU 14	A	2.45		*	*	T			T	.09	*	*	.04		.09	.66	2.88	1.03	*	.05	.10	.10	T	.31	*	*	.10	T					
NAPOOPOO 28	A	7.40	*	*	*	1.59	*	*	*	*	*	*	.56	*	*	*	*	*	*	.69	*	*	*	*	*	*	4.56	*	*	*	*	*	
NAULU FOREST 38.6		6.44	.18		.11	*	*	.04	*	*	.05			*	.38	*	4.07	.45	*	*	.42	.31				.05	*	*	.15		.03	*	.20
NIULII 179	A	8.88	.54	*	*	.90		.40	.20	.02	*	*	.20	.02	.40	.77	2.80	*	*	1.95	.12	.01		.05	*	*	.40	.08			.02	*	*
UOKALA 223		19.81	.55	.63	.61		.03	1.28	.84	.06			.22	.25	1.36	1.60	4.55	3.71	.60	.70	.23	.10	.01	.12	.61	.48	.44	.12		.08	.07	.31	.25
OPIHIHALE 2 24.1		6.37	.50	T	.24	T		.01	T	T	.50	.28	T	.33	.28	T	T	.51	.03	.18	.02	T	.68	.09	1.38	.02	.06	T		.20	.01	.07	.98
ORCHID LAND EST 91.5	A	18.91	2.17	*	*	*	*	*	*	*	1.63	*	*	*	*	*	3.98	*	*	*	*	*	*	8.71	*	*	*	*	*	*	2.42	*	*
PAAUHAU 217		9.26	.15	.11	.18	.02		.62	.36	.01				.06	.87	.86	3.24	.60	.15	.28	.02		.04	.10	.33	.37				.03	.19	.29	.08
PAAUILO 221		14.23	.22	.16	.30	.03	.03	1.18	.26			T	.08	.80	1.60	5.49	1.74	.18	.56	.05	.05	T	.07	.51	.40	.25	.02		.01	.08	.10	.06
PAHALA 21		3.44								.04					.04	1.63	.80	.01	.02		.14	.44					.32						
PAHOA 65		13.87	.89	.18	.45		.11	.69	.49	.14	.04		.41	.29	1.12	1.28	2.71	2.02	.47	.44	.63	.03	.21	.26	.67	.23	.65	.26	.15	.14	.20	.33	.38
PAKAO 37	A	5.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.15
PAPAIKOU 144.1		25.28	1.29	.44	1.42	.11	.06	.78	.81	.09	T		.23	.18	1.05	1.83	4.24	4.17	1.88	2.03	1.23	.05	.18	.33	.63	.50	.50	.46	.04	.09	.14	.32	.22
PAPAIKOU MAUKA 140.1		33.35	1.76	.76	1.37	.20	.13	1.33	1.28	.22	.03		.87	.57	.94	2.66	6.40	4.65	1.54	3.11	.45	.49	.15	.97	.96	.36	1.04	.15	.06	.15	.17	.32	.26
PEPEEKEO MAKAI 144		20.04	.95	.05	.86	.05	.23	.24	.07	.21			.28	.17	.90	.70	3.86	4.38	1.07	1.29	.27	.01	.19	.29	1.03	.53	.52	.43	.31	.30	.12	.70	.33
PIIMUNUA 89	A	43.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	43.00
POHAKULOA 107	A	1.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.43	.22	.30	.17	*	*	.14										
PUAKU 95.1	A	.64															.18	.28				.03	.15										
PUU KIHE 120	A	.85	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.85
PUU LAAU 102.1	A	1.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.08
PUU LEHUA 73	A	3.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.40
PUU MALI 113	A	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.90
PUUOKUMAU 167	A	6.17	.47	*	*	.29		.22	.17	.01	*	*	.28	.03	.38	1.16	1.94	*	*	.67	.04	.04				*	.20	.10		.01	.16	*	*
PUU OO 82		12.23	.29		.20	.18		.08	T		.01		.45	.03	.15	1.70	4.75	1.90	.39	.20	.23	.30	.11	.28	.09	.27	.19	.13		.01		.14	.15
PUU WAAWAA 94.1	A	1.47	.03														T	.36			.05		.83										
SADDLE ROAD 1 84	A	39.43	3.60	*	*	*	*	*	*	*	3.36	*	*	*	*	*	7.00	*	*	*	*	*	22	2.20	*	*	*	*	*	*	3.27	*	*	*
SOUTH POINT CORRAL 3	A	2.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.80
UMIKUA 118		13.07	.10	*	*	.20	.50	.30	.30	.20				*	.43	2.79	6.55	*	*	.55	.03	.07	.01	.08	*	.40	.05					.06	.45
UPOLU POINT USCG 159.2		3.61	.15	.03	.05	T		.24	.07	T			.09	.08	.18	.41	1.13	.07	.10	.30	.05	.05				.05	.09	.16			.07	.21	.03
WAIAKEA SCD 88.2		32.23	1.54	.58	.70	.03		1.36	.49	.13	*	*	.59	.30	1.01	2.06	6.81	8.73	*	2.49	.41	1.35	.05	.30	1.05	.36	.76	.13	.10	.28	.25	.18	.29

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.) Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Relative humidity averages-percent Standard of Time 150TH MERIDIAN 02	08	14	20	Number of days with precipitation Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
HILO, HAWAII, WB AIRPORT	34	0.3	6.5	17	E	15	91	83	72	87	0	6	17	3	2	2	30	52	7.7
HONOLULU, OAHU, WBEC	6	14.6	15.0	30	E	13	70	65	50	66	21	6	0	0	0	0	27	76	4.9
KAHULUI, MAUI, WB AIRPORT	5	12.7	13.2	30	E	26+	78	74	56	77	10	10	2	0	0	0	22	74	4.7
LIHUE, KAUAI, WP AIRPORT	6	13.3	13.5	29	E	26+	78	73	64	76	12	9	4	0	0	0	25	63	6.2

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
AUGUST
1969

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	72	73	70	73	74	74	75	72	73	72	74	75	73	66	66	75	77	76	78	69	74	72	76	75	74	75	71	73	78	71	72	73.2
	MIN	58	59	55	58	59	56	55	54	59	54	60	56	57	56	55	60	58	58	58	58	55	59	56	56	56	58	56	58	58	58	60	57.2
KILAUEA POINT 1133	MAX	81	82	82	82	83	83	83	82	84	84	82	84	81	81	82	82	81	82	83	85	82	84	85	83	81	80	79	83	81	82	82	82.3
	MIN	70	70	72	71	75	71	75	75	72	69	75	72	68	73	74	76	75	73	72	71	74	69	71	72	73	71	75	71	71	75	74	72.4
LIHUE WB AP 1020.1	MAX	85	85	85	85	85	85	86	85	85	86	85	85	84	85	85	85	85	85	85	84	85	84	85	85	85	84	84	85	85	85	85	84.9
	MIN	75	75	76	76	76	76	76	75	77	74	76	74	75	76	75	76	77	76	72	73	75	76	75	76	73	72	75	76	74	73	75	75.0
MAKAHUENA POINT 940.1	MAX	85	88	87	86	87	87	86	92	89	88	88	88	87	85	85	88	87	82	86	88	88	89	87	86	86	86	85	87	86	84	85	86.7
	MIN	75	73	76	73	75	75	73	76	76	72	71	73	77	71	74	72	78	69	73	70	74	75	72	76	70	74	72	72	75	75	72	73.5
MANA 1026	MAX	90	90	91	91	90	90	90	89	89	88	88	87	88	89	89	90	90	92	91	68	90	90	90	90	90	89	89	89	89	89	89	89.5
	MIN	68	67	68	68	68	67	67	70	70	69	68	69	70	68	66	67	68	68	68	66	67	67	67	66	66	66	67	69	69	69	67	67.7
NIU RIDGE 1035	MAX	85	84	85	85	83	84	85	85	84	83	84	83	84	85	84	85	85	86	85	80	81	82	80	82	83	84	83	85	85	84	84	83.8
	MIN	65	65	63	64	63	63	64	65	63	63	63	61	63	65	62	64	63	64	62	62	62	63	60	62	63	63	62	64	63	62	33	62.1
WAIAHI LOWER 1054	MAX	79	79	80	78	80	80	80	83	82	79	79	80	79	79	78	80	79	80	79	79	79	81	80	80	80	79	78	80	79	79	79	79.5
	MIN	66	67	67	69	75	68	68	66	67	67	70	70	69	68	67	66	68	68	66	65	66	66	66	65	66	66	68	66	67	66	66	67.3
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	85	86	86	86	86	86	88	85	87	87	87	86	85	86	86	88	86	87	85	85	87	87	87	85	86	87	88	87	66	85	87	86.3
	MIN	70	70	70	70	70	69	72	69	68	68	72	74	70	72	72	72	71	70	69	69	72	68	69	69	70	70	70	72	70	70	70	70.2
HONOLULU WBFC 703	MAX	90	90	91	90	90	90	92	91	92	90	92	91	90	89	90	91	90	90	90	90	91	90	91	89	90	91	92	91	89	90	90	90.4
	MIN	77	77	76	76	77	77	78	77	76	77	78	77	76	75	76	77	77	74	73	74	76	76	76	76	76	75	74	78	73	75	77	76.0
HONOLULU SUGSTA 704	MAX	82	82	84	83	84	84	84	84	85	83	83	83	82	81	82	83	82	82	81	82	83	84	84	82	83	83	85	85	81	82	83	82.9
	MIN	75	74	75	76	76	76	76	77	76	76	76	76	73	74	74	76	75	74	73	72	72	75	74	73	73	72	73	75	71	72	75	74.4
KAHUKU 912	MAX	84			84	84	85	85	84			87	85	85	84	83			85	85	85	84	86			85	84	85	84	84			
	MIN	75			72	73	75	74	75			74	74	73	73	73			74	74	72	71	74			71	70	70	72	70			
KANEOHE MAUKA 781	MAX	83	82	83	84	83	83	83	84	86	84	83	83	84	84	83	81	83	82	81	83	81	83	84	84	83	82	84	82	83	82	82	83.0
	MIN	72	70	71	73	72	72	73	74	72	72	71	74	75	74	71	71	75	72	71	69	69	69	71	72	72	72	72	72	69	69	72	71.7
LUALUALEI 804	MAX	87	89	90	89	88	89	89	90	89	88	89	88	88	86	86	89	88	89	89	86	88	88	89	86	89	87	89	90	90	88	88	88.3
	MIN	75	76	76	74	76	76	77	74	74	75	74	75	73	76	76	77	77	75	74	74	76	74	73	76	72	73	74	76	75	74	76	74.9
MAKAPUU POINT 724	MAX	80	80	80	80	82	80	81	81	84	81	80	60	80	79	80	78	79	80	80		81	80	80	81	80	80	81	83	81	80	79	80.4
	MIN	73	71	73	72	73	70	73	72	74	73	72	69	70	69	70	69	70	71	72		72	70	73	72	71	69	72	70	69	69	72	71.2
UPAEULA 870	MAX	82	81	82	82	81	82	84	85	86	87	82	82	81	78	78	81	84	78	83	81	82	83	84	83	81	81	81	80	81	82	82	81.9
	MIN	67	67	67	68	68	68	68	67	67	67	69	69	68	67	67	69	68	67	66	64	65	65	65	66	67	66	67	66	67	66	67	66.9
PRI WAHIAWA 820.2	MAX	84	86	88	80	86	87	86	88	88	86	88	86	85	82	83	87	80	87	85	84	83	86	84	80	86	85	85	85	85	83	84	84.9
	MIN	68	68	68	67	68	66	68	67	67	65	64	69	67	68	69	70	70	68	67	67	69	65	64	66	67	67	67	67	67	68	68	67.3
WAIALUA 847	MAX	86	84	85	86	85	86	86	89	68	89	86	86	85	84	84	85	87	84	86	85	87	87	88	86	83	85	85	86	87	86	85	85.8
	MIN	65	66	67	66	65	65	65	66	66	65	65	67	67	67	71	70	70	69	65	64	64	63	64	63	67	66	67	69	68	68	67	66.4
WAIKIKI 717.2	MAX	86	85	87			87	87	90	87	88	87	87	87	85	86	87	87	86	87	86	86	86		87	86	87	84	88	87	86	86	86.6
	MIN	73	73	74			75	76	82	74	75	75	75	73	73	73	76	75	74	70	74	72	75		74	76	72	74	78	71	71	75	74.2
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	84	83	84	84	84	84	83	84	84	84	83	85	83	83	82	83	87	82	83	83	83	86	85	86	84	83	84	85	82	83	83	83.7
	MIN	71	71	73	73	73	71	72	72	70	74	73	74	72	71	72	73	73	72	71	72	71	72	73	72	70	70	71	72	71	72	72	71.9
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	81			63	79	75	76	77	79	73	79	78	78	74	75	76	75	79	78	77	75	79	78	77	78	79	79	82	78	77	74	77.5
	MIN	67	65		66	67	65	65	65	65	65	63	63	64	64	64	64	66	64	64	64	65	63	63	65	64	63	64	64	62	61	65	64.3
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 336	MAX	61	62	65	64	64	65	68	68	65	65	64	68	68	57	66	63	65	65	62	61	60	63	62	63	64	62	61	68	68	65	64	64.1
	MIN	43	46	43	44	45	45	49	45	44	43	51	51	45	47	51	45	51	44	43	48	44	41	42	42	44	48	47	54	44	47	47	45.9
HALEAKALA SUMMIT 338.4	MAX	62			61	57	59	60	61			58	54	56	50	56			55	54	52	55	56				55	59	59	56			
	MIN	42			40	43	45	46	43			42	44	43	42	40			39	37	40	41	41				40	43	43	42			
HANA AIRPORT 355	MAX	81	83	84	84	84	82	82	84	85	83	82	83	82	81	85	82	84	82	82	83	84	84	84	84	85	84	84	84	83	83	82	83.2
	MIN	70	70	70	72	70	70	70	70	69	70	70	70	70	70	70	73	72	72	70	69	67	70	71	69	69	68	72	72	69	69	70	70.1
KAANAPALI AIRPORT	MAX	85	86	86	87	87	85	86	86	88	87	86	87	87	86	85	85	87	87		85	86	86	87	87	87	86	87	89	86	85	87	86.4
	MIN	73	73	69	72	69	73	68	72	68	71	68	74	70	69	69	70	73	72		70	70	69	69	74	71	71	70	75	72	72	72	70.9
KAHULUI WB AP 398	MAX	87	87	89	88	87	87	89	92	89	85	89	88	87	87	86	88	88	89	87	86	88	88	88	88	87	89	91	89	87	88	87	87.9
	MIN	72	71	72	74	74	72	71	66	63	71	73	72	71	71	71	67	74	72	71	72	71	71	73	72	69	70	68	74	72	71	72	71.1
KAILUA 446	MAX	78	78	79	79	79	79	79	79	80	80	78	80	80	79	80	76	79	77	77	78	78	79	80	79	78	79	79	80	80	79	80	78.9
	MIN	66	67	67	68	68	69	68	69	69	68	69	69	67	67	67	69	69	67	67	65	66	68	67	67	67	66	68	70	70	69	67	67.8
KEAWAKAPU BEACH 260.7	MAX	89	91	89	90	92	89	88	88	89	89	85	91	90	92	92	90	90	93	92	91	89	90	90	90	90	92	91	93	92	88	92	90.2
	MIN	67	67	65	66	66	67	68	67	66	65	67	68	67	68	68	67	67	67	65	70	65	64	66	65	65	65	68	69	67	67	66	66.6
KULA SANATORIUM 267	MAX	73	76	74	73	74	73	73	74	74	72	73	76	74	74	75	72	74	75	76	74	72	73	74	76	75	76	75	76	76	76	72	74.2
	MIN	59	59	58	58	58	59	59	57	58	59	60	61	59	57	58	60	59	60	59	60	59	58	58	58	59	60	60	59	58	59	58	58.8
LAHAINA 361	MAX	85	86	88	87	87	88	88	86	86	86	86	88	88	89	87	89	88	88	87	86	85	86	87	86	87	87	88	87	86	88	87	87.0
	MIN	69	70	69	72	69	70	70	70	68	70	71	70	70	70	73	70	70	71	69	70	69	69	69	68	73	71	71	72	72	70	70	70.2

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII AUGUST 1969

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
WAILUKU 392	MAX																																
	MIN	72	72		71	74	72	72	71	74		72	73	70	70	71	73		71	71	72	72	73			70	70	72	75	71			71.8
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	81	84	84	83	84	84	84	85	84	84	84	84	83	80	82	80	83	82	83	85	83	85	85	83	81	83	83	85	83			83.2
	MIN	65	65	65	66	66	68	67	67	64	67	68	66	65	66	66	66	68	67	65	64	65	66	65	66	64	66	68	68	65			66.0
HAWAII VOLCNS NP HQ 54	MAX	68	77	70	64	71	72	72	71	73	72	69	69	70	66	72	73	68	67	67	69	67	71	70	69	67	69	70	74	71	70	71	70.0
	MIN	57	56	56	56	56	60	58	57	55	55	55	55	57	57	58	59	59	57	55	54	54	56	55	54		55	56	56	56	54	58	56.2
HILO WB AIRPORT 87	MAX	84	82	83	85	84	85	86	85	85	84	83	82	81	83	83	83	84	83	81	84	84	82	82	82	84	85	87	83	82	83	85	83.6
	MIN	68	68	68	68	68	71	70	68	67	68	69	68	69	70	71	70	70	69	68	68	68	69	68	68	68	68	69	70	70	69	69	68.8
KAINALIU 73.2	MAX	78	80	78	78	81	80	80	80	81	80	80	81	77	77	80	77	82	81	80	79	77	79	79	80	78	78	79	81	81	80	78	79.4
	MIN	65	63	64	63	66	66	68	65	64	65	65	67	64	64	67	65	66	65	63	66	64	62	67	64	65	64	63	67	64	64	66	64.9
KAMUELA 192.2	MAX	73	74	73	73	73	75	74	76	78	76	74	73	73	70	70	73	72	72	73	74	74	75	73	73	71	74	74	75	72	72	73	73.4
	MIN	60	61	60	62	61	61	62	60	61	62	62	60	60	60	61	61	63	62	60	60	60	60	59	61	62	60	51	54	59	60	62	60.2
KAMUELA AIRPORT 191	MAX	74	76	75	76	72	77	76	78		78	76	77	74	73	71	74	74	74	76	76	75	76	76	76	79	74	77	77	78	75	74	75.5
	MIN	55	51	59	59	62	61	60	59		62	67	44	52	61	60	52	64	69	58	58	59	68	57	60	54	54	51	60	54	54	64	58.3
KEAAU 92	MAX	78	83	83	83	82	82	84	83	85	85	85	82	82	78	78	82	82	82	78	78	82	80	82	82	82	82	84	85	81	83	83	82.0
	MIN	68	67	67	67	68	68	70	68	68	68	68	67	68	68	68	69	69	69	66	65	66	67	65	65	65	66	67	69	67	66	66	67.3
KEALAKEKUA 26.2	MAX	78	77	78	79	80	80	80	77	80	82	79	80	77	76	79	78	82	81	79	78	75	77	79	78	78	78	79	80	81	79	78	78.8
	MIN	67	66	64	64	67	67	69	66	65	67	65	68	65	65	67	66	67	66	63	66	65	63	67	65	66	65	64	68	65	66	67	65.8
KOHALA MISSION 175.1	MAX	77	81	81	81	81	82	80	81	83	82	81	81	80	79	80	79	81	80	80	81	81	82	82	81	79	80	82	83	81	80	80	80.7
	MIN	68	68	67	69	70	70	69	69	69	69	69	69	68	69	68	69	70	68	68	69	69	68	66	68	67	67	68	71	69	67	69	68.5
KONA AIRPORT 68.3	MAX	82	85	85	83	83	86	84	85	88	88	84	86	87	80	84	85	88	86	87	84	82	84	87	85	84	85	84	84	86	85	86	84.9
	MIN	68	66	66	68	68	68	68	69	66	66	68	69	69	68	68	66	66	68	68	68	68	68	68	67	67	67	67	67	68	66	67	67.5
KULANI CAMP 79	MAX	64	61																								57	61	60	59	65	65	
	MIN	55	56	51	48	51	52	52	51	51	47	52	52	45	46	54	43	54	49	49	49	48	50			48	48	47	47	47	47	43	49.4
MAUNA KEA BEACH 98	MAX	89	88	87	88	88	87	87	88	88	88	87	88	93	92	87	88	87	88	89	88	85	87	88	88	88	94	87	87	90	92	91	88.5
	MIN	73	76	74	74	73	75	75	74	73	74	77	76	70	76	74	74	71	75	73	73	73	73	74	73	78	74	70	74	74	75	76	74.0
MAUNA LOA SLOPE 08S	MAX	54	54	51	50	55	58	54	54	54	60	58	56	52	53	52	55	57	54	50	48	50	54	52	60	64	61	55	54	61	61	55	55.0
	MIN	35	35	38	37	36	38	34	33	36	39	37	38	35	37	38	37	40	38	35	39	35	38	35	39	45	44	41	38	39	41	38	37.7
MOUNTAIN VIEW 91	MAX	73	77	80	76	78	79	78	79	81	82	76	78	75	72	78	73	79	76	73	73	78	79	74	77	73	78	78	81	75	76	77	76.8
	MIN	64	64	64	61	63	64	66	65	62	62	65	64	63	64	64	65	66	64	63	62	62	62	62	61	62	62	61	65	62	61	65	63.2
NAALEHU 14	MAX	80	80	80	84	83	84	83	81	81	84	84	84	83	80	84	84	83	83	81	81	81	82	82	82	82	81	81	84	81	81	81	82.1
	MIN	70	70	68	68	67	73	71	69	69	69	69	69	68	69	67	67	69	69	68	69	68	66	66	65	65	68	71	69	67	67	67	68.3
OOKALA 223	MAX	79	81	81	82	83	82	82	81	82	82	84	82	80	80	81	78	81	81	80	81	82	81	79	80	80	81	82	82	81	80	80	81.0
	MIN	69	70	70	70	69	70	69	70	69	70	70	68	68	68	70	69	70	69	68	68	68	68	67	67	67	66	70	69	70	68	68	68.8
OPIHIHALE 2 24.1	MAX	77	82	77	80	83	82	79	81	81	80	79	78	76	80	80	82	80	78	78	78	76	78	76	76	77	78	83	78	75	77	81	78.9
	MIN	65	62	61	63	66	65	66	64	65	64	62	63	62	63	62	63	64	63	66	64	62	63	63	64	62	61	62	62	62	65	64	63.3
PAHALA 21	MAX	80	83	83	81	84	84	84	80	82	81	82	84	83	83	86	78	83	78	78	79	80	81	81	81	81	82	83	81	84	83	80	81.7
	MIN	66	67	72	65	66	67	66	65	67	69	69	67	67	67	66	67	67	65	64	63	63	65	63	62	64	66	67	66	63	64	66	65.8
UPOLU POINT USCG 159.2	MAX	82	84	83	83	83	84	85	85	85	85	85	85	85	81	82	82	82	82	81	84	83	84	84	83	83	84	83	84	81	82	79	83.2
	MIN	69	72	69	72	72	72	71	71	71	72	71	70	69	69	70	69	72	71	70	73	70	71	70	72	70	70	70	72	70	70	67	70.5

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.44	.45	.37	.50	.40	.43	.30	.43	.39	.38	.37	.44	.36	.38	.35	.45	.38	.44	.40	.41	.37	.40	.45	.44	.44	.31	.47	.36	.40	.33	.32	12.36
	WIND	-	115	112	109	110	108	96	73	63	74	90	116	103	103	84	28	28	-	-	-	-	-	-	210	234	258	233	220	227	190	213	41298
	MAX	91	90	90	92	91	91	91	94	94	92	92	89	90	86	88	87	91	90	89	89	89	89	91	91	90	90	88	89	91	88	88	90.0
	MIN	69	69	70	70	71	70	71	71	71	71	70	70	70	70	70	70	73	73	69	70	69	70	71	70	69	69	70	72	70	70	69	70.2
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.36	.33	.40	.27	.32	.34	.34	.33	.28	.26	.30	.40	.31	.39	.31	.28	.28	.20	.33	.30	.28	.22	.35	.30	.33	.32	.28	.33	.30	.33	.30	9.67
	WIND	42	44	39	35	37	38	38	28	29	28	39	51	39	49	49	43	36	27	34	30	30	21	33	29	40	50	32	50	31	53	9	1133
	MAX	95	92	95	91	92	92	95	95	94	92	92	95	95	93	91	92	92	91	95	92	92	88	94	93	92	92	93	89	94	93	92	92.7
	MIN	69	70	69	70	70	70	71	71	70	70	71	70	70	70	70	72	72	70	69	69	70	68	68	70	69	68	70	71	69	70	70	69.9

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 981	0114	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUGAR CO.
ANAHOLA 1111	A 0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDE'WOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 914	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EAW 3 RESERVOIR 1 94.1	0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 111	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1036	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1 5	A 2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	01	HANALEI	1	22 09	159 34	690		WI		S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FILLO 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 103 .1	4650	03	WAIMEA	3	22 02	159 41	2150				L	KEKAHA SUGAR CO.
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A			HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M + M 1001	6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROS 1083	A 643	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1 35	685	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1 51	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	6893	01	LIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		L	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	235		7A		L	PRINCEVILLE RANCH
PUEHU RIDGE 1.4	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1 04	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
TABLE CAMP 1 55.1	8694	02	LIHUE	2	22 04	159 27	740				L	LIHUE PLANTATION CO.
WAHIAWA 210	A 8941	02	KOLOA	2	21 54	159 34	215		7A		L	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A 8949	02	KOLOA	2	21 58	159 31	2100		MO			MC BRYDE SUG CO LTD
WAIAHI LOWER 1 54	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1 52	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A 0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				L	J. L. BANNING
EWA PLANTATION 741	0501	03	EWA	3	21 21	158 02	50	9A	7A			EWA PLANTATION CO
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				L	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274		WI		L	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 154	03	EWA	3	21 24	158 06	2220		VAR			H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST + GEODETIC
#HONOLULU WBF 703	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		J	U S WEATHER BUREAU
#HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID			ESSA-WEATHER BUREAU
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A			KAHUKU PLTN CO
KAILUA FIRE STA 791.1	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A			KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	KOOLAUPOKO	1	21 19	157 41	1380					HAWAII NATIONAL GUARD
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 925.1	3220	01	KOOLAULOA	1	21 36	157 54	10				L	GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.1	A 3741	05	WAIALUA	5	21 34	157 59	1180		WI			WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3	3825	02	KOOLAUPOKO	1	21 40	158 00	1050				L	HAWAII NATIONAL GUARD
KEMOO CAMP B 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C + F OFFICER HEOG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A			USN AMMUNITION DEP
LUALUALEI AIR TUNNEL	A 5650	04	WAIANAE	4	21 29	158 08	1500		WI			U S NAVY
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LUM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A 5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 820.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5810	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				L	EXP. STA. H.S.P.A.
MOANALUA 77	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				L	FEDERAL AVIATION ADM.
NUUANU RES 4 783	6728	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A 6733	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 87	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		L	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLAT 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1	7933	03	EWA	3	21 25	157 58	240					JAMES MUMENO
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO. JR.
PRI WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A			PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8733	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798	A 9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 8	A 9240	04	WAIANAE	4	21 29	158 09	1575		WI			CAPITAL INVEST CO
WAIAWA 816	A 9261	03	EWA	3	21 28	157 57	800		MO			WAIAHOLE WTR CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIAHOLE WTR CO LTD
WAIKIKI 717	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VALLEY 723	A 9495	02	HONOLULU	2	21 18	157 45	170		WI			BOARD OF WTR SUPPLY
WAILUPE VALLEY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO 794	A 9521	01	KOOLAUPOKO	1	21 21	157 44	60		8A			ST DIV WTR + LAND DEV
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A			WAIALUA SUGAR CO. INC.
WAIPAHU 755	A 9718	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 7	9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6	3046	01	MOLOKAI	1	21 04	156 52	60				L	W. J. CARSTEN
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				L	MOLOKAI GENERAL HOSPITA
KE HELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		WK			MOLOKAI RANCH. LTD.
KUALAPUU 534	A 4770	01	MOLOKAI	1	21 09	157 02	878		7A			DEL MONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A 6193	01	MOLOKAI	1	21 08	157 13	1070		9A			LIBBY MCNEILL + LIBBY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A			PUUOHOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		TW		C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A			DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			STATE DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 53	156 55	1430		MO			DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040		WM			DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050					MAUI PINEAPPLE CO.
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		L	U OF MICH MT HKALA OBSY
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				L	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM + SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		L	HARRY MASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KUALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100					STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650					EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		L J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020					KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM + SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CURELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM + SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A			KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		L	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800		MO			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A			E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM + SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		WI			KAUPO RANCH CO.
PAUWELA 490	A 7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500		MO			PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM + SUG CO
PUU PAKI 352	8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM + SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A			ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		WM			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR			MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		WI			KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240		MO			KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770		MO			KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		MO			STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		L	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		L	KOHALA SUGAR CO
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	J	U S WEATHER BUREAU
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A			PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				L	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A			SHIGEO MASUYA
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				L	HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		L	MISS AMY GREENWELL
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				L	STATE DIV. OF FORESTRY
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840		WI			KOHALA DITCH CO LTD
KIOLAKAA A + F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		7A			KOHALA SUGA9 CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A			HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI		L	U S WEATHER BUREAU

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		W1			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L + N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1930		8A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV. OF PARKS
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 00	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS 39	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HUALALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			PAUHAU RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600		MO			HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	615		7A			PAAUHAU SUGAR CO
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHUA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			HAWAIIAN RANCH CO, INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA ALA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KLA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 147	A 8063	22	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKU 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIHE 120	A 8193	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIAU RANCH CO
ISLAND OF HAWAII												
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440		MO			STATE DIV OF FISH+GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUOKUMAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6240		6A			DON WINTERS
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 41	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	420		W1			HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305				C	FEDERAL ELEC TRIC CORP
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U COAST GUARD
WAIAKEA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830				C	KAHUA RANCH

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you Additional precipitation data are contained in "HOURLY PRECIPITATION OATA HAWAII".

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

H Adjusted to a full month

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

W1 Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

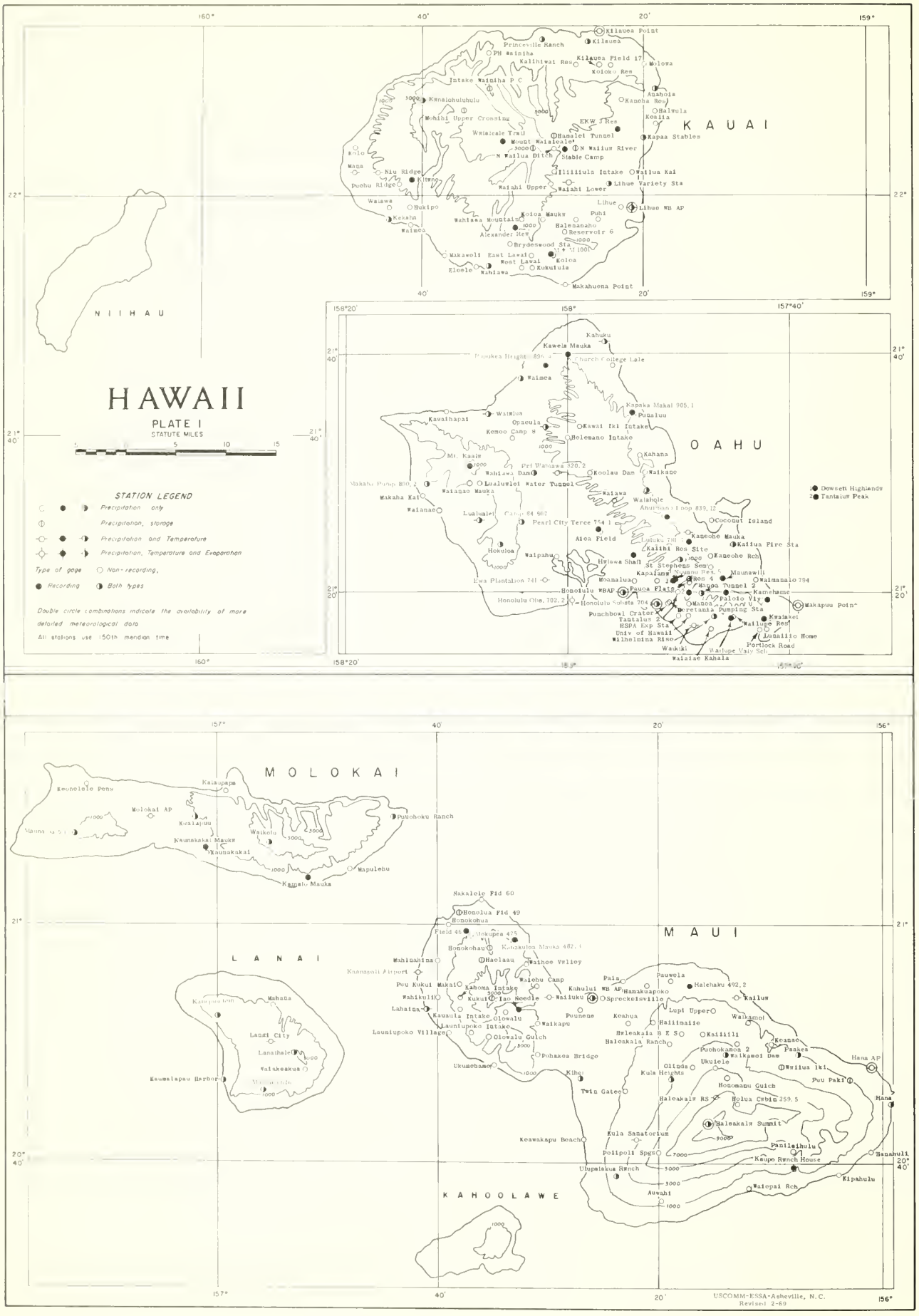
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

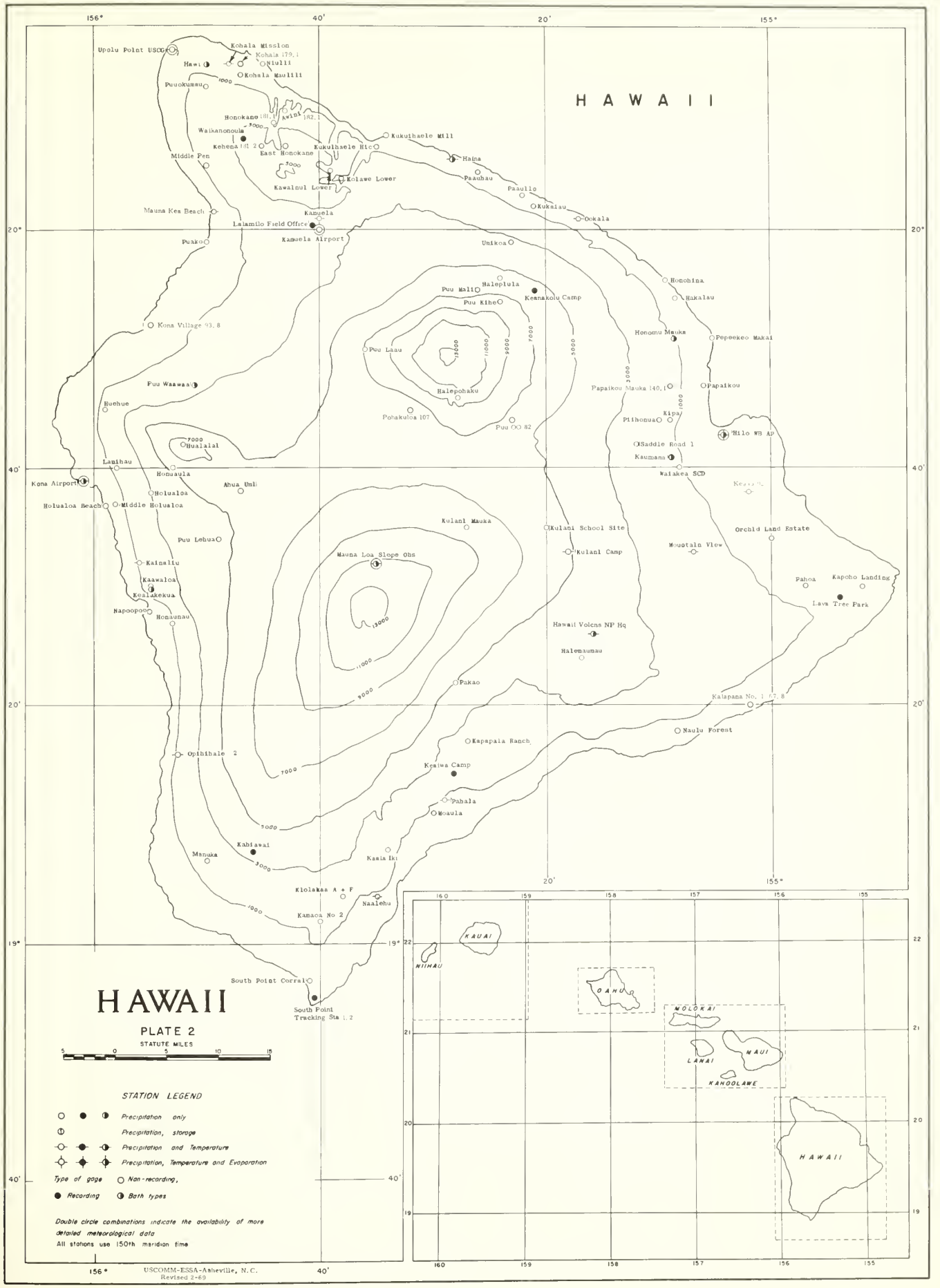
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE -12/5/69-890


HAWAII
PLATE I
STATUTE MILES
0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data.
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
Kilauea Point
Princeville Ranch
PH Wainiha
Kilauea
Kilauea Field 17
Kalihiwai Res
Koloko Res
Molowa
Intake Wainiha P C
Kwaiohuluhulu
Kaneha Res
Halwula
Koaia
Mohihi Upper Crossing
EKW 3 Res
Wwiaiele Trail
Mount Waialeale
Hanalei Tunnel
Kapaa Stables
N Wailua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Kilauea
Puohu Ridge
Illiliula Intake
Wailua Kai
Waiahi Upper
Waiahi Lower
Lihue Variety Sta
Lihue
Lihue WB AP
Waiawa
Hukipo
Koloa Mauka
Puhi
Kekaha
Wahiawa Mountain
Halenanaho
Waimea
Alexander Res
Reservoir 6
Brydeswood Sta
Makaweli East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kaweia Mauka
Waimea
Church College Iale
Kapuka Mukai 905.1
Kawaihapai
Waiawa
Opaeula
Kawai Iki Intake
Pumaluu
Komoo Camp 8
Helemano Intake
Kahana
Mt. Kaala
Waialua
Prf Wahiawa 820.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 800.2
Lualualei Water Tunnel
Waianao Mauka
Makaha Kai
Waianae
Lualualei Camp 84 967
Pearl City Terce 754.1
Waialua
Waialeale
Ahuimanu Loop 839.12
Coconut Island
Kaneohe Mauka
Kailua Fire Sta
Kailua Res Site
Kaneohe Rch
Hokuloa
Waipahu
Hwiawa Shaft
St Stephens Semy
Kapalama Nursery Res 4
Maunawili
Ewa Plantation 741
Moanalua
Waimanalo 794
Honolulu WBAP
Pauoa Flats
Manoa Tunnel 2
Kaneohe
Honolulu Obs. 702.2
Honolulu Substa 704
Paloio Vly
Punchbowl Crater
Beretania Pumping Sta
Makapuu Point
Tantalus 2
HSPA Exp Sta
Kualakei
Univ of Hawaii
Wilhelmina Rise
Waikiki
Portlock Road
Waialae Kahala
Dowsett Highlands
Tantalus Peak
Keomoku Point
Kaunakakai Mauka
Kaunakakai
Mapulehu
Kamalo Mauka
Kalaupapa
Molokai AP
Kualapuu
Waikolu
Puuohoku Ranch
Nakalele Fld 60
Honolua Fld 49
Honokohua
Field 46
Mokupea 475
Honokohau
Kanakaloa Mauka 482.4
Haelaau
Waihee Valley
Mahinahina
Kaanapali Airport
Puu Kukui Makai
Kahoma Intake
Waiehu Camp
Kahului WB AP
Hamakuapoko
Paia
Pauwela
Halehaku 492.2
Wahikuli
Kuiki
Iao Needle
Waiiuku
Spreckelsville
Kailua
Lahaina
Kauaula Intake
Olowalu
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Waikapu
Pohakea Bridge
Ukumehame
Kihei
Twin Gates
Lupi Upper
Waikamoi
Hailimaile
Keahua
Pulehunui
Hwleakala B E S
Kaililili
Haleakala Ranch
Puohokamoa 2
Waikamoi Dam
Keanae
Paakea
Hana AP
Ukulele
Olinda
Kula Heights
Honomanu Gulch
Puu Pakii
Haleakala RS
Holua Cable 259.5
Hana
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Polipoli Spgs
Kaupo Ranch House
Ulupalakua Ranch
Auwahi
Waiopai Rch
Kipahulu
Manele Bay
Kaumalapau Harbor
Lanai City
Lanaihale
Waiakeakua
Mahana
Kaiopae 1690
Mahana
Nakalele
Paeahu
Hanahuli
USCOMM-ESSA-Asheville, N.C.
Revised 2-69


HAWAII
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STATUTE MILES
5 0 5 10 15
STATION LEGEND
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USCOMM-ESSA-Asheville, N.C.
Revised 2-69
Upolu Point USCG
Kohala Mission
Kohala 179.1
Hawi
Niulii
Kohala Mauliili
Puuokumau
Honokane 181.
Awini
182.1
Waikanonoula
Kehena 181.2
East Honokane
Kukuihaele Mill
Kukuihaele Hic
Middle Pen
Haina
Kawaihui Lower
Kolawe Lower
Pauuhau
Pauullo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Hakalau
Puu Mali
Halepiula
Keanakolu Camp
Puu Kihe
Kona Village 93.8
Puu Laau
Honomu Mauka
Pepeekeo Makai
Puu Waawaa
Papaikou Mauka 140.1
Papaikou
Huehue
Halepohaku
Pohakuloa 107
Puu OO 82
Pihonua
Kipu
Hilo WB AP
Saddle Road 1
Kaumana
Lanihau
Hualalai
Honuaula
Waiakea SCD
Kona Airport
Ahua Umi
Holualoa
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Mauna Loa Slope Ohs
Kulani Camp
Mountain View
Kainaliu
Kaawaloa
Kealakekua
Pahoa
Kapoho Landing
Lava Tree Park
Napoopoo
Honaunau
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 47.8
Naulu Forest
Kapapala Ranch
Opihihale 2
Keauwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kapua Iki
Kiolakaa A + F
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1.2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

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HAWAII
SEPTEMBER 1969
Volume 65 No. 9

CLIMATOLOGICAL DATA

Station		Temperature													Precipitation								
											No. of Days								Snow, Sleet			No. of Days		
											Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														2.14	.01			.0	0				0
KANALOHULUHULU 1075		72.8	56.2	64.5		78	25	48	9		0	0	0	0	2.36		.51	18	.0	0		6	1	0
KAPAA STABLES 1104	A														2.23				.0	0				0
KILAUEA FIELD 17 1135	A														6.08	.80			.0	0				
KILAUEA POINT 1133		81.4	72.3	76.9		85	6	70	25+		0	0	0	0	4.50		2.00	21	.0	0		11	2	1
KOLOA 936	A														5.11	.73			.0	0				
LIHUE WB AP 1020.1	R	84.6	74.3	79.5	1.4	86	25+	69	10		0	0	0	0	1.49	- .59	.53	21	.0	0		5	1	0
MANA 1026		88.1	67.6	77.9	.0	90	30+	64	29		5	0	0	0	.03	- .76	.03	11	.0	0		0	0	0
N WAILUA DITCH 1051	A														17.74				.0	0				
PH WAINIHA 1115															7.60	1.53	3.16	22	.0	0		14	3	2
PUEHU RIDGE 1040															.34		.18	11	.0	0		1	0	0
WAHIAWA 930	A														1.42	- .29			.0	0			0	0
WAIAHI LOWER 1054		78.9	66.1	72.5		81	15	59	10		0	0	0	0	9.32		1.51	15	.0	0		18	6	3
WAIMEA 947															.43	- .23	.23	16	.0	0		2	0	0
ISLAND				74.3											4.34				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															.76		.54	22	.0	0		1	1	0
HONOLULU WBFO 703	R	88.8	75.1	82.0	2.8	91	15+	72	23		11	0	0	0	.87	- .12	.57	21	.0	0		1	1	0
KAHUKU 912	A	83.4M	72.3M	77.9M	- .3	86	8	69	4		0	0	0	0	2.06	.21			.0	0				0
KANEOHE MAUKA 781		81.3	71.3	76.3	- .5	83	28+	69	30+		0	0	0	0	4.49	.68	1.12	22	.0	0		13	1	1
KOOLAU DAM 833															9.03	2.79	1.40	14	.0	0				2
LUALUALEI 804		86.2	72.9	79.6		89	6+	69	10		0	0	0	0	.73				.0	0			0	0
MAKAPUU POINT 724		82.3	71.6	77.0		89	16	62	28		0	0	0	0	1.42	.71	.54	21	.0	0		5	1	0
NUUANU RES 4 783															3.60	- 4.93	1.48	21	.0	0		9	1	1
OPAEULA 870	A	81.1	66.7	73.9	.7	85	7	63	24		0	0	0	0	2.41	- .03			.0	0				0
PALOLO VALLEY 718															10.74	2.31	4.30	21	.0	0		18	5	1
PRI WAHIAWA 820.2	A	83.4	66.3	74.9		87	16	63	23		0	0	0	0	1.43				.0	0			0	0
PUNALUU 884	A														4.41				.0	0				
WAHIAWA DAM 863	A														1.41				.0	0				0
WAIAHOLE 837	A														9.81	.02			.0	0				
WAIALUA 847	A	84.3	65.7	75.0	- 1.3	88	1	61	23		0	0	0	0	1.27	.48	.56	11	.0	0		4	1	0
WAIKIKI 717.2		85.7	73.4	79.6		88	16+	70	30+		0	0	0	0	1.13		.59	22	.0	0		3	1	0
WAIMANALO EXP FARM		84.6	74.0	79.3		87	9	68	30		0	0	0	0	1.60		.61	21	.0	0		2	1	0
WAIPAHU 750	A														1.02	- .06			.0	0				0
ISLAND				77.6											3.23				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														1.32	.54			.0	0				0
MAPULEHU 542															3.64	1.04	1.12	20	.0	0			1	1
MAUNALOA 511	A														.91	- .20			.0	0				0
MOLOKAI AP 524		81.9	71.7	76.8		86	15+	70	28+		0	0	0	0	1.32		.55	21	.0	0		3	1	0
ISLAND				76.8											1.80				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	77.8M	64.7M	71.3M	- .2	80	22	63	23+		0	0	0	0	1.96	- .31	1.08	11	.0	0				1
ISLAND				71.3											1.96				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														3.54	1.24	.82	1	.0	0		9	2	0
HALEAKALA RS 338		64.2	45.5	54.9		73	19	38	7+		0	0	0	0	2.31		.95	22	.0	0		8	1	0
HANA AIRPORT 355		83.0	70.3	76.7		85	23+	68	29+		0	0	0	0	5.65		.60	21	.0	0		20	2	0
HONOKOHUA 493	A														1.85	.17			.0	0				0
KAANAPALI AIRPORT		85.0M	70.8M	77.9M		88	1	65	7		0	0	0	0	.34		.13	2	.0	0		1	0	0
KAHULUI WB AP 398	R	86.9	68.9	77.9	- .5	90	24+	61	7		3	0	0	0	.49	.24	.16	30	.0	0		1	0	0
KAILUA 446		78.7	66.9	72.8	- .5	80	29+	64	6		0	0	0	0	10.48	2.98	.92	14	.0	0		26	9	0
KEANAE 346	A														15.80	3.57			.0	0				
KIPAHULU 258															8.53	1.68	1.05	21	.0	0		18	8	1
KULA SANATORIUM 267		73.8	58.4	66.1	- .4	81	14	56	30+		0	0	0	0	.26	- 1.71	.09	10	.0	0		0	0	0
LAHAINA 361		86.7	69.8	78.3		88	21+	67	30+		0	0	0	0	.00	- .29	.00		.0	0		0	0	0
PAIA 406															1.39	.11	.19	27	.0	0		7	0	0
WAILUKU 392			71.8M	M				69	27				0	0	.16	- .44			.0	0		0	0	0
ISLAND				72.1											3.91				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		82.6M	66.4M	74.5M	.0	84	15+	64	11+		0	0	0	0	3.28	.99	.66	2	.0	0		12	2	0
HAWAII VOLCNS NP HQ 54		69.5	55.1	62.3	- 1.0	72	24+	52	30		0	0	0	0	5.17	.08	1.35	22	.0	0		11	2	1
HILO WB AIRPORT 87	R	81.9	68.1	75.0	- .5	84	15	65	30+		0	0	0	0	7.24	- 1.26	2.07	21	.0	0		19	4	1
HUEHUE 92.1	A														4.19	.96			.0	0				
KAINALIU 73.2		79.3	64.6	72.0		82	22+	61	21		0	0	0	0	6.38	- 1.22	1.87	11	.0	0		14	3	2

See Reference Notes Following Station Index

Station	Temperature													Precipitation								
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191	75.4M	56.2M	65.8M		78	12	48	6+		0	0	0	0	.50		.12	27	.0	0		1	0	0
KEAAU 92	82.6	66.0	74.3	- .6	85	22+	62	29+		0	0	0	0	9.51	.46	1.91	22+	.0	0		23	5	2
KEALAKEKUA 26.2	78.5	65.3	71.9		82	23+	63	28+		0	0	0	0	5.06		1.40	11	.0	0		13	2	2
KONA AIRPORT 68.3	84.3M	68.6M	76.5M		86	22+	65	30+		0	0	0	0					.0	0				
KUKUIHAELE HIC 199														3.26	.47	.73	2	.0	0		10	1	0
KULANI CAMP 79	64.9	49.6	57.3		69	15+	44	6		0	0	0	0	5.53		1.90	22	.0	0		17	1	1
MAUNA KEA BEACH 98	88.3	73.5	80.9		94	3	71	21+		10	0	0	0	.17		.16	10	.0	0		1	0	0
PAHALA 21	81.1	64.3	72.7	- 1.0	85	29	61	10+		0	0	0	0	2.63	.10	1.10	22	.0	0		4	2	1
POHAKULOA 107 A														.00		.00		.0	0		0	0	0
PUAKO 95.1 A														.15		.13	10	.0	0		1	0	0
PUU WAAWAA 94.1 A														.91	- 1.42	.33	11	.0	0		4	0	0
UMIKOA 118														2.74	.58	1.02	3	.0	0			1	1
WAIAKEA SCO 88.2														13.61		3.07	22	.0	0		23	7	4
ISLAND			71.2											4.14				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 3D AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 32° ON THE 16TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 34.39 INCHES AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 7 STATIONS

GREATEST ONE-DAY PRECIPITATION: 5.76 INCHES ON THE 21ST AT PAUOA FLATS, 784, OAHU

See Reference Notes Following Station Index

DAILY PRECIPITATION

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																	
ANAHOLA 1111	A	2.14	*	.16	.02	.11	.02	*	*	.07		.01	.51		*	*	.17		.02	.05	.05	*	*	.75		.03	.05	.05	*	*	.17	.09		
BRYDESWOOD STA 985	A	3.33	*	.58	T	.12	.10	*	*	.02	.05		.10	.04	*	*	.17		.02	.44	.05	*	*	.81	.01	.12	.05	.03	*	*	.32	.30		
EAST LAWAI 934	A	4.63	*	.95	.01	.26	.16	*	*	.11			.11	.01	*	*	.28		.03	.31	.10	*	*	.84	.05	.13	.58	.07	*	*	.43	.20		
ELEELE 927	A	1.03	*	.23		.07	.12						T		*	*	.03	.02		.05		*	*	.26		.05	.06	T	*	*	.04	.10		
HALAULA 1110	A	2.21	*	.22	.10	.13	.06	*	*	.20		.03	.52		*	*	.07			.07	.07	*	*	.42			.03	.16	*	*	.07	.06		
HALENANAHO 1006	A	5.25	*	.73		.16	.11	*	*	.27	.23		.35	.03	*	*	.16		.21	.37	.27	*	*	1.54		.05	.08	.04	*	*	.46	.19		
HUKIPO 945		.15																.10								.05							
ILILILULA INTAKE 1050	A	16.16	*	1.84	.06	.38	.26	*	*	.15	.41	.06	1.34	.15	*	*	1.99	.15	.16	3.70	.45	*	*	3.25	.04	.39	.11	.03	*	*	.56	.68		
INTAKE WAINIHA PC 1086	A	8.64	*	*	*	*	*	*	*	2.00	*	*	.61	*	*	*	*	*	*	1.95	.05	*	*	2.48	*	*	*	.05	*	*	1.50	*		
KALIHIWAI RES 1131	A	8.38	*	1.29	.11	.14	.06	*	*	.19	.01		.51	.09	*	*	1.12	.03	.15	1.04	.19	*	*	2.36	.03	.08	.41	.21	*	*	.28	.08		
KANALOHULUHULU 1075		2.36				.47	.08	.05	.04				.09		.02			.15		.51		.09	.02	.12		.02	.17		.05	.03	.08	.37		
KANEHA RESERVOIR 1092	A	7.54	*	.56	.05	.21	.13	*	*	.37	.05		.95	.04	*	*	1.90	.02	.13	.42	.29	*	*	1.40		.11	.05	.11	*	*	.60	.15		
KAPAA STABLES 1104	A	2.23	*	.32	.10	*	.03	*	*	.10	.02	.08	.30		*	*	.06			.10	.05	*	*	.55		.02		.09	*	*	.19	.22		
KEALIA 1112	A	1.92	*	.33	.07	.03	.05	*	*	.15			.30		*	*	.06			.03	.04	*	*	.48				.03	*	*	.13	.22		
KEKAHA 944		.02																									.02						
KILAUEA 1134	A	4.37	*	.72	.08	.10	.06	*	*	.11	.06	.01	.38	.01	*	*	.74		.05	.12	.09	*	*	1.42		.11	.12	.01	*	*	.14	.04		
KILAUEA FIELD 17 1135	A	6.08	*	.82	.05	.21	.11	*	*	.15	.02		.38	.07	*	*	1.12	.04	.08	.59	.25	*	*	1.41	.02	.09	.29	.09	*	*	.26	.03		
KILAUEA POINT 1133		4.50	.10	.04	.32	.03	.03		.05	.03		.50		.05	.04	.24		.01	.15	.04	.10	.11	2.00		.04	.04	.04	.14		.05	.25	.10		
KOLO 1033		.10																		.03				.02			.05						
KOLOA 936	A	5.11	*	1.21		.18	.20	*	*	.12	.04		.17		*	*	.33		.17	.25	.14	*	*	.75		.18	.25	.05	*	*	.52	.55		
KOLOA MAUKA 994	A	7.11	*	1.23		.18	.13	*	*	.21			.72		*	*	.78		.09	.71	.21	*	*	1.61		.21	.11	.05	*	*	.58	.29		
KOLOKO RES 1137	A	6.73	*	1.03	.09	.12	.05	*	*	.09		.04	.65	.02	*	*	1.40	.03	.14	.48	.13	*	*	1.72	.03	.05	.19	.15	*	*	.28	.04		
KUKUIULA 935	A	2.15	*	.31		.09	.13	*	*	.10			.10		*	*	.12		.01	.03	.05	*	*	.48	T	.07			*	*	.42	.24		
LIHUE VARIETY STA		4.75	.01	.04		.07	.01	.07	.12	.13	.03		1.16	.01	*	*	.15	.04	.03	.32	.04	.22	*	1.29		.15		.09	.12	*	.23	.42		
LIHUE 1020	A	2.73	*	.31	.02	.21	.04	*	*	.29	.02	.16	.35	.01					.03	.05	.08	*	*	.70	.01	.04		.02	*	*	.22	.17		
LIHUE WR AP 1020.1	R	1.49	.01	T	.01	.08	T	.03	.02	.18	T	.22			T					.05	.05	T	.03	.53		T	T	.03	T	.02	.10	.10	.03	
MAKAHUENA POINT 940.1		1.17	.01	.11			.08			.02			.08			.04				.05	.01	.17	.03	.16		.03	.03		.04	.05	.02	.24		
MAKAWELI 965	A	.56			.06	.05											.26				.03	.10	.04		.01					.01			
MANA 1026		.03											.03																				
MOHIHI UPR CROSS 1083	A	3.22			.10	.34	.24	.05		.10			.15		.05				.27	.16		.16	.16	.16		.05		.11	.05	.32	.11	.64		
MOLOAA 1145	A	2.23	*	.34	.06	.03	.01	*	*	.08			.30		*	*	.18	.02	.05	.14	.04	*	*	.61	.03	.03	.02	.15	*	*	.08	.06		
MOUNT WAIALEALE 1047		34.39	1.61	.43	.39	.90	1.42	.32	.16	.43	.08	2.13	1.54	.28	.75	.63	1.18	1.42	3.94	2.01	.20	2.05	4.33	.51	.16	1.57	.12	1.30	.32	1.97	.59	1.65	
NIU RIDGE 1035		.29								.03			.07											.10			.09						
N WAILUA DITCH 1051	A	17.74	*	1.96	.30	.50	.46	*	*	.46	.30	.30	1.70	.30	*	*	2.70	.20	.50	1.80	.60	*	*	3.00	.20	.30	.40	.20	*	*	.90	.66		
PH WAINIHA 1115		7.60	.25	.03	.02	.13	.08	.02	.02	.01		T	.61	T	*	.40	.04		.01	1.21	.11	.11	.39	3.16		.05	.23	.12	.12	.06	.16	.21		
PRINCEVILLE RANCH 1117		5.99	.25		.01	.32	.10	.07		.01			.32	.04	.07	.04	.76			.32	.22	.08	.02	1.98		.74	.08	.03			.19	.16	.18		
PUEHU RIDGE 1040		.34								.05			.18						.03					.05			.03							
PUHI 1013	A	3.87	*	.53		.39	.05	*	*	.21	.34	.03	.30	.01	*	*	.06		.05	.23	.07	*	*	1.03	.01	.07	.01	.04	*	*	.33	.11		
RESERVOIR 6 1004	A	5.62	*	.76		.25	.05	*	*	.51	.04		.48		*	*	.23		.26	.23	.19	*	*	1.54		.31	.10	.06	*	*	.41	.20		
WAHIAWA 930	A	1.42	*	.31	T	.25	.03						T		*	*	.16			.02	T	*	*	.22		.03	.14	.06	*	*	.15	.05		
WAHIAWA MOUNTAIN 990	A	12.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.75		
WAIAHI LOWER 1054		9.32	.39	.01	.16	.17	.22	.11	.08	.04	.22	.02	1.47	.02	.01	.02	1.51	.05	.15	.77	.22	.22	.63	1.43		.26	.09	.08	.21	.15	*	.61		
WAIAHI UPPER 1052		12.84	.51	.10	.03	.35	.45	.04	.02		.36	.01	1.61	.11	.01	.28	1.65	.10	.15	1.61	.36	.65	.67	1.87	.01	.32	.20	.06	.23	.17	.03	.88		
WAIAWA 943		.13																	.02					.11									
WAILUA KAI 1065	A	2.72	*	.27		.05	.05	*	*	.27	.03		.31							.26		*	*	.88		.13			*	*	.12	.35		
WAIMEA 947		.43																.23	.18												.02		
WEST LAWAI 931	A	2.50	*	.47	T	.24	.10	*	*	.03			.12		*	*	.13		.02	.07	.02	*	*	.52	T	.08	.05	.08	*	*	.37	.20		
* * * ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	1.54	*	.36	.07	.11	.31						.05									*	*	.27					*	*	.12	.25		
BERETANIA PUMPING STA		1.42		.02	.09	.07	.11						.04		.12	.03						.07	.10	.48		.03	.02			.01	.09	.14		
CAMP 84 807	A	1.19	*	.04	*	.03	.09	*	*	.07	*	*	.39	*	*	*	.08	*	*	.02	*	*	*	.45	*	*	.01	*	*	*	.01	*		
CHURCH COLLEGE LAIE		10.30	.40	.10		.40	.05				.50	1.60	1.10	.05	.10	.20	.30	.10	.10	.05	.10	.25	1.25	1.15	1.00	.25	.10	.10	.10	.05	.15	.75		
COCONUT ISLAND 840.1		2.06	.04		.04	.04	.21	.09		.01	.13	.07	.09	.04		.01			.02	.09		.13	.37	.19		.16	.02	.05		.16		.10		
EWA PLANTATION 741		.90				.13	.05						.05				.06					.13		.46							.02		
HELEMANO INTAKE 881	A	4.27	*	1.00	*	.39	*	*	*	.46	*	*	*	*	*	*	.65	*	*	.07	*	*	*	1.00	*	.39	*	*	*	*	.31	*		
HOKULOA 725.2	A	2.01	*	*	*	*	*	*	*	*	.19	*	*	*	*	.72	*	*	*	*	*	.26	*	.59	*	*	*	*	*	*	*	.25		
HONOLULU OBSERV 702.2		.76	T		T	.03	.03										.08					.08	T	.54		T				T	T		
HONOLULU WBFC 703	R	.87	T	T	T	.01	.06			T		.04	T		.03	.01			T		T	.03	.57		T	.01	T			T	.01	.08	.02		
HONOLULU SUBSTA 704		1.16			.10	.07	.04					.05			.08							.06	.46		.08				.05	.09	.08		
H S P A EXP STA 707		1.80	.10		.06	.11	.15	.01					.03		.15	.04			T			.12	.56	.21		.06	.04				.05	.11		
KAHANA 883	A	20.81	*	2.19	*	*	*	*	*	3.00	*	*	*	*	*	*	6.84	*	*	*	*	*	*	7.30	*	*	*	*	*	*	1.48	*		
KAHUKU 912	A	2.06	*	.23		.22	.02	*	*	.01			.39		*	*	.03			.03		*	*	1.35	T	.28	.05			*	.10	.11		
KAILUA FIRE STA 791.3		1.74	.03		.02		.08		T	.03	T	.01	T	.01	.07		.01		T	.20	T	.29	.43	.15		.09	.07	.05	.03	.05	.08	.04		
KALIHI RES SITE 777		9.82	.10	.02	.10	.16	.10		.04	.46		.72	.04	.02		1.06	.06		.60	.10	.08	.92	3.82	.12	.46	.56	.06	.02	.08	.04	.04		
KANEOHE MAUKA 781		4.49	.23		.22	.09	.13	.14	.06	.13	.26	.09	.24	.02		.02	.13			.27	.02	.43	.35	1.12	.02	.36	.09	.01		.03	.02	.01		
KANEOHE RANCH 838	A	3.19	*	.13	T	*	.26	*	*	.12		.17	.15					*	.02	.20	*	.40	*	1.35	T	.28	.05					.06		
KAPALAMA 773	A	3.43																.50	.10				*	2.00		.15	.20		*	*	.20	.28		
KAWAIHAPAI 841	A	1.96				.05	.07	*	*	.01	.01		.55		*	*	.10			.35		*	*	.70			T		*	*	.05	.07		
KAWAI IKI INTAKE 880.2	A	7.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
KEMOO CAMP 8 855	A	1.19	*	.12		.09	.09	*	*	.01			.27		*	*	.01			.05	*	*	*	.47			*	.05		*	.05	.03		
KOOLAU RANCH 833		9.03	1.08	.41	.22	.30	.51	.06	.06	.14	.12	.15	.09	.06	.20	1.40	*	*	.04	.24	*	.89	.36	.90	*	.48	.83	.01	.04	.29	.15		
LUALUALEI 804		.73				.01					.02		.28		*	*	.01			.01		*	*	.38								.02		
LUALUALEI WTR TUNNEL	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
LUNALILO HOME 724.2	V	3.42	.20			*	*	*	*	*	.12	.05	*	.09					.03	*	.02	.11	*	1.40		.37				.03	.01			
MAKAHA KAI 796	A	.55											.26											.29									
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		1.42	.01		.12	.10	.04									.01						.10	.54	.35		.07				.01	.05	.02		
MANOA 712		4.68	.38	.09	.14	.28	.16	.05	.05	.02		.06	.11	.02	.30	.32	.02			.13		.21	.48	.86	.04	.44	.16	.03	.02		.12	.19		
MANOA TUNNEL 2 716		12.74	.28	.08	.14	.24	.10	.04	.02	.12		1.28	.10		.30	.52			.60	.36	.08	1.16	5.28	.40	.40	.62	.08		.02	.08	.14	.30		
MOANALUA 770		1.56	.07	.01	.06	.03	.13			.01			.05	.01	.10	.02						.14	.18	.47		.05	.04			.04	.09	.06		
NUUANU RES 4 783		3.60	.12			.02	.08		.12	.30		.26	.06			.36			.04		.02	.28	1.48	.02	.08	.10	.02		.02	.04	.02	.16		
NUUANU RESERVOIR 5 775	A	5.22	*	.20	*	.25	.20	*	*	.24		.19			*	*	.42		*	.12	T	*	*	2.45		.45	.07		*	*	.14	.49		
OPAEULA 870	A	2.41	.05	.07	.02	.05	.26	*	.05	.02	.01		.19	.01	*	*	.22	.01				*	.50	.35	.05	.04	.10	.01	*	.13	.16	.11		
PALOLO VALLEY 718		10.74	.14	.20	.24	.18	.08	.04	.12	.10		.92	.08		.28	.66	.02	.02	.44	.34	.02	.80	4.30	.30	.46	.60	.02			.10	.08	.20		
PAUOA FLATS 784		16.94	.68	.06	.34	.30	.16	.08	.08	.70		1.66	.24		.20	1.16		.04	.88	.32	.06	1.64	5.76	.20	.50	.80	.06			.18	.24	.60		
PORTLOCK ROAD 724.4		1.14	.04				.02			.01	.02	.04	.02						.05	.02	.08	.32	.15	.18			.15			.02	.02			
PRI WAHIAWA 820.2	A	1.43	*	.26		.11	.17	*	*	.03	.04		.13		*	*	.11					*	*	.36		T	.02	T	*	*	.13	.07		
PUNALUU 884	A	4.41	*	.32		.25	.10	*	*	.06		.24	.33	.37	*	*	.42	.02	.05	.21	.10	*	*	1.28	.02	.15	.12	.04	*	*	.11	.22		
PUNCHBOWL CRATER 709	A	2.10	.04	.02	.12	.10	.12			.01		.01	.06		.08	.15						.12	.18	.60	.02	.36	.05	.01	.01	.01	.18	.18		
ST STEPHENS SEM 788		4.73	.23		.08	.18	.10	T	.10	.12	.10	.21	.04	.03	.02	.04	.02		.01	.10	.02	.51	1.12	.80	T	.50	T	.01		T	.05	.34		
TANTALUS 2 780.5		8.04	*	.94	.41	.34	.24	*	.40	.09	.12	.20	.16	.07	.36	.21			*	*	.21	.51	.75	1.28	.07	.65	.20	.05	*	.02	.38	.38		
UNIV OF HAWAII 713	A	2.37	*	.43	.07	.10	.17	*	*	.01			.05		*	*	.13			.01		*	*	.98	.02	.18	.02	T	*	*	.09	.11		
WAHIAWA DAM 863	A	1.41	*	.12	.03	.03	.09	*	*	.06	.03		.07	.01	*	*	.15			.02	.02	*	*	.55	.01		.06	.01	*	*	.05	.10		
WAIAHOLE 837	A	9.81	*	.60	.03		.07	*	*	.34	.28	.17	1.27	.15	*	*	1.32	.03	.05	1.35	.02	*	*	3.25	.27	.23	.12	.05	*	*	.03	.18		
WAIALAE KAHALA 715		1.92	.02		.04	.04	.04	.05					.11	T		.01	T			T		.15	.24	.77	.02	.25	.02	T		.05	.02	.09		
WAIALUA 847	A	1.27				.05	.05			T	.02	T	.56				.02			T		.18	.12	.16	T	T	T			.01	.02	.08		
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIANAE MAUKA 803	A	3.40	*	*	.24	*	*	.22	*	*	*	.06	*	*	.75	*	*	*	.35	*	*	*	*	.27	*	1.24	*	*	.27	*	*	*		
WAIAWA 836	A	8.45	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.45		
WAIKANE 885	A	12.23	*	1.09	*	*	*	*	*	1.14	*	*	*	*	*	*	4.00	*	*	*	*	*	*	5.26	*	*	*	*	*	*	.74	*		
WAIKIKI 717.2		1.13	T		.02	T	.03	.01				.03				T	*					.09	.14	.59	T	.13					.02	.02	.05		
WAILUPE RESV. 723.2	A	2.83	*	*	*	.18	*	*	*	*	*	*	.42	*	*	*	*	*	*	.13	*	*	*	*	*	*	1.79	*	*	*	*	.31		
WAIMANALO EXP FARM		1.60			.06	.01	.06					.03	.01							.03		.07	.61	.46	.01	.09	.07				.03	.06		
WAIMEA 892	A	2.85	*	.38	T	.24	.15	*	*	.30			.05	T	*	*	.15					*	*	.92		.06	.20	.05	*	*	.22	.13		
WAIPAHU 750	A	1.02	*	.04	.01	.07	.07				.02		.10		*	*	.01					*	*	.54		.01	.01	.01	*	*	.02	.11		
WILHELMINA RISE 721		2.60	.08	.04	.18	.02	.10	.08	.02	.02	.02	.16	.02		.10	.22		.02	.02			.18	.82	.02	.12	.08				.06	.02	.20		

See reference notes following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF MOLOKAI																																
KALAUPAPA 363	A	3.14	.02	.08	.02	*	*	.11	*	*	*	.12	*	*	*	.20	*	*	*	*	*	.10	.12	.25	.13	*	*	*	1.19	.31	.49	*	
KAUNAKAKAI 536	A	.00																															
KONELELE PENS 591	A	4.20																						2.20									
UALAPUU 534	A	1.32				.03	.02						.21		.05							*	*	.63			*	.04	*	*	.25	.09	
MAPULEHU 542		3.64	.16	.04		.07			.07	*	.20	.13	*	.04	.14	*	*	.30	.17	.02	.26	1.12	.11	*	.25	*	.04	.13	.07	.16	.13	.03	
KAUNALOA 511	A	.91										.20									.05	*	*	.57					*	.03	*	.06	
MOLOKAI AP 524		1.32	T	T		T	.05						.36		T									.29	T				T	T	.02	.05	
PUUOMOK RANCH 542.1		3.16	.21	.04	.03	.07	.06	.02	.04	.03	.29	.16	.12	.01	.03			.16	.08	.10	1.01	.15		.01	.12	.14	.13	.02	.02	.02	.03	.06	
WAIKOLU 540	A	6.11		1.75						.69							.45								1.25						1.97		
* * * ISLAND OF LANAI																																
KAENAPUU 690	A	.83					*	*	*	*	*	*	.54	*	*	*	*	*	*	.14	*	*	*	*	*	*	.15						
KAUMALAPAU HARBOR 65H	A	.03									.03																						
LANAI CITY 672	A	1.96										T	1.08	.06						.13	.04	*	*	.62	.01	T	T		.02	T			
MANAIHALE 684	A	1.36	*	*	*	*	*	.60	*	*	*	*	*	*	.33	*	*	*	*	*	*	*	.25	*	*	*	*	*	.18	*	*	*	
MAHANA 694	A	.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	
MALAUEA 676	A	T											T																				
PAIAKEAKUA 685	A	.69	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.33	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.36	
* * * ISLAND OF MAUI																																
AUWAHI-252	A	1.49					.17					.60					.07										.65						
MALEAKALA B E S 434	A	3.54	.82	.49	.10	.09	.09	.05		.02	.01	.03	.02		.09							.03	.01	.10		.04		.16	.66	.15	.34	.24	
MALEAKALA RANCH 432	A	1.49	.27	.07	*	*	*	*	*	*	*	*	.20	*	*	*	*	*	*	*	*	*	*	.18	*	*	*	*	.28	.05	.22	.22	
MALEAKALA RS 338		2.31	.25	.12					.06	.10	.01	.02	.26			.02	T			.02				.95	T	.15		.02		.06	.14	.13	
MALEAKALA SUMMIT 338.4		1.32																				*	*	1.27		.05					T		
MALIIMAILE 423	A	1.94	*	.55	.07	.07	.14	.11			.01				*	*	.14					*		.06				.04	.26	*	.14	.35	
MAMALUAPOKO 485		4.47	.37	.37	.20	.14	.25	.03	.04	.09	.09	.03	.02		.08	T		.02			.07	.10	1.15	.35	.07	.06	.02	.21	.40	.07	.21	.03	
MANA 354		5.55	.70	.17	.22	.09	.07		*	.45	*	.30	.23	.04		T	.42		.28	.15		.15	*	.75		.56	.01	.54	.11	*	.31		
MANA AIRPORT 355		5.65	.45	.11	.21	.07	.10	.02	.09	.18	.14	.58	.14	T		.36	.05	T	.28	.30	T	.28	.60	.13	.32	.23	.02	.41	.13	.16	.29	T	
MANAHULI 281		7.81	.73	.10	.11	.01	.25	.20	.10	.28	.69	.19	.10	.17		.55			.35	.12	.08	.16	1.03	.50	*	*	.72	.38	.40	.13	.10	.36	
MOLUA CABIN 259.5	A	1.15	*	*	*	*	.51	*	*	*	*	*	.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.51	*	*	*	*	
HONOKOHAU 480	A	9.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.50	
HONOKOHUA 493	A	1.85	*	*	.09	.08	.08	*	*	.11	.02		.04	.02						.07	.04	*	*	.82	.04	.12	.02	.02	*	*	.24	.04	
HONOMANU GULCH 341	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.00	
KANAPALI AIRPORT		.34	.02	.13	.01	T		T					.06									.01		.03				T	.02	.02	.02	.02	
KAHOMA INTAKE 374	A	8.78	*	*	*	*	*	*	*	4.42	*	*	*	*	*	*	.29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.07	
KAHULUI WB AP 398	H	.49	.02	.04	.01	.02	.03	T		.01	T	T		.02	T						T		.05				T	.05	.01	.05	.02	.16	
KAILILI 436	A	6.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.62	
KAILUA 446		10.48	.76	.75	.42	.24	.13	.17	.62	.70	.23	.44	.24	.03	.21	.92	.07	.01	.24	.32	.21	.29	.50	.53	.14	.37	.17	.60	.58	.36	.19	.04	
KAUALUA INTAKE 375	A	2.06	*	.48	*	*	*	*	*	.72	*	*	*	*	*	*	.14	*	*	*	*	*	*	.28	*	*	*	*	*	*	.44	*	
KEZHUA 410		.65	.04	.20	.01	.05	.01	.03							.03									.03					.03	.02	.10	.10	
KEANAE 346	A	15.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.80	
KEAWAKAPU BEACH 260.2		.03																								.03							
KIHEI 311		.00																															
PAHULU 258		8.53	.30	.90	.23		.31		.63	.46	.16	.64	.27	.12		.66			.08	.54	.05	.05	1.05	.50	.03	.62		.30			.43	.20	
PULA HEIGHTS 323.2		.35											.19											.16									
PULA SANATORIUM 267		.26	.05							.06	.01	.09			.02									T		.03			T				
AMAINA 361		.00																															
AUNIUPOKO INTAKE 376	A	3.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.50	
AUNIUPOKO VILLAGE 372	A	.05											.05																				
LUPI UPPER 442	A	13.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.00	
MAHINAHINA 466	A	2.11	.30	.50	.10	.05		.18							.08									.20		.08		.06	.22		.24	.10	
NAKALELE -FLO 60-497	A	2.27	*	*	*	*	*	*	*	.11	*	*	*	*	*	*	.40	*	*	*	*	*	*	1.48	*	*	*	*	*	*	*	.28	
OLINDA 332	A	1.98	*	.38	T	T		*	*	.04	T	.45	.02	*	*	*	T					*	*	.41	T	T			*	*	.31	.37	
OLOWALU 296		.00																															
OLOWALU GULCH 377	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00	
PAAKEA 350		18.05	1.60	1.14	.92	.30	.57	.15	.64	1.18	.42	.58	.32	.08	.16	.78	.24	.19	.31	.59	.44	.38	1.32	1.17	.62	.74	.27	.92	1.31	.20	.55		
PAIA 406		1.39	.18	.07	.05	.05	.10	.03		.12					.09						T	.01	.06	.10	T			.11	.19	.03	.08	.12	
PANILEIHULU 259.2	A	4.87	*	*	*	*	*	*	*	1.82	*	*	*	*	*	*	*	*	.65	*	*	*	*	*	*	*	*	*	*	*	2.40	*	
PAUWELA 490	A	5.29	*	1.46	.20	.23	.17	*	*	.45	.02	.09	.02	.01	*	*	.05	.01	.03	.07	.02	*	*	1.42	.01	.08	.07	.34	*	*	.54		
PUHAKEA BRIDGE 307.2	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
POLIPOLI SPRINGS 267.2	A	2.28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.28	*	*	*	*	
PUOHOKAMOA 2 343	A	19.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	19.80	
PUU KUKUI MAKAI 472	A	7.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.20	
PUUNENE 396		.07			T	T							T											T					.01	T	.02	.04	
SPRECKELSVILLE 400.2		.71	.07	.04	.07	.05	.03	.02		.05					.04								.02	.03				.05	.08	.04	.05	.07	
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	2.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.70	
UKUMEHAME 301	A	.00																															
ULUPALAKUA RANCH 250		2.16		1.15						.09	.07	.54	.03											.08		.20							
WAHIKULI 364	A	.03											.03																				
WAIEHU CAMP 484	A	.34	.04	*	*	.07	.06	*	*	*	.07	.02	*	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	*	T	*	.04	.02	
WAIHEE VALLEY 482	A	1.41	.06	*	*	.05	.04	*	*	.02	.09	.10	*	*	*	*	*	*	*	*	*	*	*	.68	.02	*	*	.03	.07	.16	.06	.03	
WAIKAMOI 449	A	15.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.30	
WAIKAMOI DAM 336	A	18.45	*	5.90	.87	.41	.37	*	*	1.36	.34	*	1.50	.09	*	*	1.08	.01	.01	.09	.10	*	*	1.35	.12	.48	.03	.64	*	*	2.64	1.06	
WAIKAPU 390	A	.02	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	*	*	
WAILUKU 392		.91	*	.04	T	.01	.01	*	*	.01	.01																						
WAIOPAI RANCH 256	A	.18						*	*	.18														.02					T	*	.04	.02	
* * * ISLAND OF HAWAII																																	
AHUA UMI 75	A	.10	*	*	*	*	*	*	*	*	.32	.42	*	*	.04	*	*	.27	*	.05	.05	.02	.22	*	*	.46	.12	.07	.04	.21	*	*	.10	
AWINI 182.1	A	6.40	*	2.64	.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.40	.03
EAST HONOKANE 183.2	A	6.93	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.93	
HAINA 214		3.28	.21	.66	.11	.59	.06	.13				.26									.06			.10	.10		.05	.07	.12	.29	.37	.10	
HAKALAU 142		6.61	1.30	.55	.58	.12	.73	.07	.03	.14	.14	.11		.02	.04	.05			.15	.09	.13	.22	.04	.09	.69	.52	.07	.12	.20	.35	.42	.11	.03	
HALEMAUMAU 52	A	1.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.70	
HALEPIULA 117	A	.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.43	
HALEOMAKU 111	A	.54																		.02			.08	*	.43	.01							
HAWAII VOLCNS NP HQ 54		5.17	.38	.20	.54	.11	.07	.09	.02	.16	.04	.31	.09	.08		.05	.02	.02	.01	.04	.49	.08	.01	1.35	.32	.19	.22	.09	.05	.02	.09	.03	
HAW7 168	A	2.31	*	.85	.06	.03	.01				.02	.01			*	*	.11	.09		.02	.04	*	*	.25	.01	.05	.08	.10	*	*	.57	.01	
HILO WB AIRPORT 87	R	7.24	.59	.65	.27	.24	.20	.01	T	.27	.06	.19	.01	.14	.01	.04	.01	.12	.10	.21	.06	.14	2.07	.60	.07	.09	.03	.12	.11	.36	.17	.30	
HOLUALOA 70	A	9.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.20	
HOLUALOA BEACH 68	A	4.85	2.06		.86					.14			.71							.10					.97						.05		
HONAUNAU 27		7.22	.47	.15	.05	.11	.16	.10	.20	.50	.38	.20	.59	.05	.02	.10	.04	.55	1.99	.05	.04	.05	.02	.10	.41	.02	.05	.51	.04	.05	.20	.02	
HONOHINA 137		7.06	1.34	.92	.28	.33	.27	.13	.06	.08	.08	.07	.01	.01	.03	.04	.03	.01	.14	.12	.18	.04	.05	1.00	.71	.08	.12	.11	.08	.25	.34	.15	
HONOKANE 181.1	A	6.33	*	2.53	.10	*	*	*	*	.09			.09	*	*	.14			.02	.29	*	*	.67	.07	.11	.18	.19	*	*	1.81	.04	
HONOMU MAUKA 130		13.31	1.25	.85	.58	1.24	.31	.66	.12	.16	.11	.23	.04	.07	.10	.22	.05	.26	.66	.30	.55	.20	.07	2.98	1.02	.07	.25	.20	.24	.26	.18	.08	
HONOULIA 71	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20	
HUEALALAI 72	A	1.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.50	
KUHUE 92.1	A	4.19	*	*	*	3.52	*	*	*	*	*	*	*	*	*	*	*	.67	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
LAALA 1KI 12	A	4.25							.17	.03	.45	1.02	.03	.01		T			T	T	.04			1.93	.57	T							
LAWAILOA 29	A	4.88	*	*	*	1.73	.03	*	*	.27	.05	.40	1.50		*	*	.05	.12	.02	.16	.01	*	*	.05	.01	.12	.08	T	*	*	.28	T	
LAINAILI 73.2		6.38	.46	.20	.11	.34	.02	.21	.15	.17	.24	.05	1.87	.05	1.17	T	.04	.51	.01	.29	.01	.01	T		.07	.03	.02	.03	.01	.10		.19	
LALAPANA NO 1 67.8		4.80	.78	.09	.01	.01	.06	.02		*	*	.58	.13	.15		*	*	T	T	.07	T	.05	.67	.07	*	2.45	.02	.07	.05	.01	*	.01	
LAMAUA NO 2 5	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
LAMUELA 192.2		1.35	.08	.15	.03	.17	.10				.02						.03	.02						.11	.04				.03	.18	.11	.08	.11	
LAMUELA AIRPORT 191		.50	.05	.09	T	.03	.05	T				T					T			T			T	.05		T		.12	.02	T	.09	
LAPAPALA RANCH 36	A	3.55	*	*	*	*	*	*	*	.22	*	*	*	*	*	*	*	T	*	*	*	2.30		*	1.01	*	*	*	*	*	*	*	
LAPOHO LANDING 93.5	A	7.18	*	*	*	*	1.35	*	*	*	*	*	*	.96	*	*	*	*	*	*	1.21	*	*	*	*	*	*	3.66	*	*	*	*	

See reference notes following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		13.58	1.27	.95	.53	1.05	.75	.29	.02	.73	.13	.30	.10	.20		.21	.01	.10	.05	.15	.67	.02	.06	2.95	1.44	.05	.18	.10	.05	.18	.11	.93	
KAWAINUI LOWER 193	A	5.79	*	*	*	*	2.10	*	*	*	*	*	*	.67	*	*	*	*	*	*	.98	*	*	*	*	*	*	2.04	*	*	*	*	
KEAAU 92		9.51	1.91	.77	.28	.25	.10	.10	.05	.30	.10	.18	.05	.02	.13	.32		.06	.15	.10	.58	.09	.22	1.91	.70	.13	.21	.26	.05	.22	.14	.13	
KEALAKEKUA 26.2		5.06	1.09	.47	.21	.15	.05	.15	.19	.05	.10	.33	1.40	T	.04		.01	.20	.01	.15	.01	.05	T	T	T	.03	.04	.03	.01	.19	T	.10	
KEHENA 181.2	A	3.88	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.88	
KIOLAKAA A & F 6	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00	
KIPA 89.2	A	13.88	.83	1.33	.64	.66	.33	.60	.17	.22	.13	.49	.14	.12	.02	.22	.10	.26	.13	.30	.92	.04	.11	3.66	1.05	.34	.23	.15	.19	.13	.27	.10	
KOHALA 179.1	A	3.54	*	1.30	.11	.01	.07	*	*	.04	.05	.03			*	*	.15	.06	.02	.03	.03	*	*	.30	.05	.03	.19	.08	*	*	.58	.06	
KOHALA MAULILI 176	A	3.54	*	1.53	.04	.09	.02	*	*	.01	.18	.04			*	*	.05	.03	.01	.03	.03	*	*	.16	.03	.03	.08	.23	*	*	.73	.22	
KOHALA MISSION 175.1		3.22	.65	.35	.11	.01	.07	.02		T	.05	.03			.08	.04	.09	.12	.02	.02	.12	.02	.08	.31	.02	.01	.14	.11	.13	.43	.30		
KOIAWE LOWER 196	A	4.16	*	*	*	*	1.70	*	*	*	*	*	*	.30	*	*	*	*	*	*	.64	*	*	*	*	1.52	*	*	*	*	*		
KONA AIRPORT 68.3		-	.13	.90	.60	.03		T	T	.09	T	.07	.08	T											.70	.07	T	-			.02		
KONA VILLAGE 93.8		.04												.01		.01												.02					
KUKAIAU 222		3.14	.11	.49		.41	.15	.16		.04								.01	T	.02	.44			.11	.26	.01	.02	.09	.25	.18	.21	.18	
KUKUIHAELE MIC 199		3.26	.24	.73	.06	.47	.09	.02				.16			.14						.71			.10	.05			.10	.08	.45	.32	.04	
KUKUIHAELE MILL 206	A	2.48	.25	.75	.06	.25	.13	*	*	.05		.17						.01			.04	*	*	.08	.04			.08	*	*	.47	.10	
KULANI CAMP 79		5.53	.40	.45	.31	.20	.15	.18		.13	.05	.20	.10	.10		.09					.25		.02	1.90	.35	.10	.15	.03	.02	.15	.15	.05	
KULANI MAUKA 76	A	1.10	.05	.05							.02												.45	.44							.09		
KULANI SCHOOL SITE 78	A	4.22	*	*	*	*	*	1.30	*	*	*	*	*	*	.40	*	*	*	*	*	*	.37	*	*	*	*	*	*	2.15	*	*	*	
LANIHAU 68.2		3.41	.10	.11	.08			.53	.23	.58	.15	.34	.31	.06	.06					.19							.59	.04				.04	
MANUKA 2	A	1.90	*	1.10	.01			*	*	T					*	*	.01	T	.30	T	.15	*	*	.14	T	.14			*	*	.05	T	
MAUNA KEA BEACH 98		.17							.01			.16																					
MAUNA LOA SLOPE OBS		.39																	T				.39										
MIDDLE HOLUALOA 68.1	A	5.35	2.16	*	.69	*	*	*	*	.76	*	*	.87	*	*	*	*	*	*	.40	*	*	*	*	.28	*	*	*	*	*	.19	*	
MIDDLE PEN 147.1	A	.72	*	*	*	*	*	*	*	.72																							
MOAULA 18	A	2.17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.17	
MOUNTAIN VIEW 91		13.54	1.76	.71	.28	.31	.37	.20	.11	.64	.23	.27	.12	.19	.13	.30		.05	.15	.17	.85	.11	.33	2.65	1.74	.21	.37	.25	.10	.41	.26	.27	
NAALEHU 14	A	2.26				*	*	*	*	.05	.07	.72	.02	T	*	.05	T		T		.10	*	*	1.08	.16	T						.01	
NAPOOPOO 28	A	3.59	1.30	*	*	*	*	*	*	.68	*	*	*	*	*	*	1.17	*	*	*	*	*	*	.33	*	*	*	*	*	*	.11	*	
NAULU FOREST 38.6		2.76	.17	*	.23	.03		T		*	*	.31	.07	.08		*		T			T	.05	.94		*	.72	.07	T	T	.02	*	.07	
NIULII 179	A	3.88	*	1.52	.12	.02	.12				.10	.05			*	*	.12	.05	.05	.03	.01	*	*	.27	.07		.21	.23	*	*	.87	.04	
OOKALA 223		4.47	.27	.58	.08	.57	.20	.18		.08		.02			.03	.01			.02	.04	.27	.18	.04	.08	.61	.05	.08	.14	.33	.27	.21	.13	
OPIHIHALE 2 24.1		2.57	T	.13	.06	.01	.07	.01	.17	.02	.21	.03	T	T		.02	.02	.48	.11	.09	T	.09	.04	T	.04	.03	.03	T	.07	.21	.49	.14	
ORCHID LAND EST 91.5	A	9.81	*	*	*	*	3.63	*	*	*	*	*	*	1.13	*	*	*	*	*	*	1.81	*	*	*	*	*	*	3.24	*	*	*	*	
PAAUHAU 217		2.55	.22	.38	.11	.32	.06	.04				.22									.10		.04	.07	.08		.02	.03	.10	.18	.43	.15	
PAAULIO 221		2.54	.06	.41	.06	.40	.07	.08		T		.02						.01	T	.01	.31			.10	.17	T	.02	.07	.22	.27	.17	.09	
PAHALA 21		2.63							.09		.65	.46												1.10	.33								
PAHOA 65		10.58	1.18	.47	.07	.07	.26	.08	.05	.26	.04	.23	.23	.09	.14	.34		.05	.19	.38	.69	.10	.25	2.17	1.10	.31	.06	.23	.15	.63	.41	.35	
PAKAD 37	A	6.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.30	
PAPAIKOU 144.1		11.56	1.12	1.00	.38	.28	.05	.23	.03	.17	.05	.29	.01	.12	.11	.12	.01		.60	.21	.19	.02	.11	4.73	.35	.04	.40	.32	.04	.21	.27	.10	
PAPAIKOU MAUKA 140.1		15.37	1.40	1.11	.46	.73	.30	.52	.08	.64	.08	.26	.05	.25	.05	.23	.15	.02	.42	.37	.49	.10	.04	5.06	.99	.15	.28	.27	.14	.15	.48	.10	
PEPEEKEO MAKAI 144		7.06	1.10	.63	.49	.40	.11	.02	.02	.32	.12	.19	.02	.05	.02	.10		.03	.11	.19	.23	.08	.03	1.37	.38	.07	.07	.34	.05	.20	.20	.12	
PIIHONUA 89	A	15.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.60	*	
POHAKULOA 107	A	.00																															
PUAKO 95.1	A	.15								.02		.13																					
PUU KIHE 120	A	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.03	
PUU LAAU 102.1	A	.95	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.95	
PUU LEHUA 73	A	2.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.20	
PUU MALI 113	A	.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.58	
PUUOKUMAU 167	A	3.13	*	1.46	.02	.15	.02				.07	.01			*	*	.01	.01		.01	.05	*	*	.16	.01	.05	.01	.22	*	*	.85	.02	
PUU OO 82		3.99	.12	.15	.11	.08		.15	.14	.06	.10	.10	.05	.23	T	.07	T			T	.07	.07		1.12	1.16	.01	.09	.05	.02	.04	T		
PUU WAAWAA 94.1	A	.91										.23	.33	.11													.24						
SADDLE ROAD 1 84	A	12.90	*	*	*	*	4.20	*	*	*	*	*	*	2.00	*	*	*	*	*	*	2.20	*	*	*	*	*	*	4.50	*	*	*	*	
SOUTH POINT CORRAL 3	A	1.49	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	1.49	
UMIKOA 118		2.74	*	.16	1.02	.20	.22	.12				.10			*	*	.02				.05	*	*	*	.05			.03	*	.35	.09	.33	
UPOLU POINT USCG 159.2		1.43	.27	.25	.02	.07						.05									.08			.06		.08	.02	.11	.03	.18	.15	.06	
WAIAKEA SCD 88.2		13.61	1.07	1.00	.43	.91	.48	.30	.15	.69	.16	.36	.08	.21	.04	.30		.20	.03	.17	.60	.19		3.07	1.70	.09	.25	.16	.08	.32	.43	.14	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.) Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Relative humidity averages-percent Standard of Time 150TH MERIDIAN 02	08	14	20	Number of days with precipitation Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
HILO, HAWAII, WB AIRPORT	28	0.5	6.3	16	NE	25	91	82	74	85	1	10	15	3	0	1	30	33	8.0
HONOLULU, OAHU, WBFC	5	13.1	13.9	29	NE	02	70	66	51	66	10	10	0	1	0	0	21	67	6.6
KAHULUI, MAUI, WB AIRPORT	5	12.0	12.6	29	NE	01	79	74	58	76	6	12	1	0	0	0	19	71	6.2
LIHUE, KAUAI, WB AIRPORT	6	12.6	13.2	26	E	29+	78	75	65	76	8	11	4	1	0	0	24	51	7.8

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
SEPTEMBER 1969

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	71	73	71	70	71	70	71	72	75	77	76	76	76	73	71	71	74	76	72	74	75	74	76	76	78	72	69	68	68	69		72.8
	MIN	59	57	56	57	54	55	51	50	48	55	57	59	59	60	56	56	55	59	57	58	56	58	54	57	57	58	58	57	55	58		56.2
KILAUEA POINT 1133	MAX	83	81	82	81	82	85	83	81	81	82	83	83	79	79	82	83	82	80	82	81	82	80	79	81	81	80	82	80	82	79		81.4
	MIN	74	72	74	72	71	72	71	72	71	72	73	71	72	71	74	72	73	74	73	73	74	75	70	73	70	72	73	73	71	72		72.3
LIHUE WB AP 1020.1	MAX	85	85	85	85	84	85	84	84	85	83	85	86	85	86	85	85	85	85	85	85	85	83	85	85	86	83	85	83	85	82		84.6
	MIN	76	76	75	73	74	73	71	71	71	69	76	77	77	76	77	77	76	75	75	74	73	76	76	75	74	74	74	72	73	72		74.3
MAKAHUENA POINT 940.1	MAX	86	85	86	86	86	83	87	88	88	88	89	88	88	88	87	89	87	86	85	85	85	85	85	86	85	86	84	85	84	83		86.1
	MIN	71	70	74	74	72	71	71	76	69	68	68	72	72	74	73	76	74	74	75	71	72	77	74	75	75	75	71	71	74	71		72.7
MANA 1026	MAX	89	89	88	88	89	88	86	87	87	88	90	89	87	88	87	88	86	89	87	87	89	90	90	87	89	87	88	87	90	90		88.1
	MIN	67	66	68	68	67	68	67	68	67	68	71	71	67	68	72	71	68	69	67	67	68	67	66	68	66	66	65	66	64	68		67.6
NIU RIDGE 1035	MAX	83	80	82	84	85	84	83	81	83	80	82	81	84	85	83	83	83	84	85	84	86	85	86	85	86	85	84	83	83	82		83.5
	MIN	64	62	63	64	65	62	63	63	63	60	63	60	62	64	63	65	64	63	63	62	65	64	65	63	65	64	65	63	62	61		63.2
WAIAHI LOWER 1054	MAX	79	78	80	79	78	77	78	79	79	80	79	79	80	80	81	78	79	79	79	80	78	79	79	79	79	79	78	79	77	79		78.9
	MIN	66	67	67	68	66	64	63	64	64	59	68	64	66	67	70	68	66	68	68	67	66	66	66	66	67	68	63	67	66	67		66.1
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	85	85	85	85	86	87	85	86	85	83	86	85	85	85	87	86	86	85	85	84	81	83	85	86	84	84	85	84	83	84		84.8
	MIN	72	72	72	69	68	68	66	67	67	67	69	69	70	71	70	68	67	71	69	69	70	70	67	70	69	67	69	68	71	67		69.0
HONOLULU WBFO 703	MAX	89	89	90	89	90	90	91	89	87	87	90	90	89	89	91	90	90	90	89	88	84	87	89	90	87	89	89	88	88	87		88.8
	MIN	76	78	76	74	73	76	73	75	75	74	74	77	75	78	77	76	73	77	76	74	73	76	72	75	76	75	76	75	74	73		75.1
HONOLULU SUBSTA 704	MAX	81	83	83	82	81	82	84	83	81	80	83	82	82	82	84	82	82	82	83	83	81	81	81	83	81	82	82	81	81	82		82.0
	MIN	74	73	73	72	71	74	73	74	74	73	74	72	73	76	75	74	73	74	75	73	72	74	74	74	76	75	74	71	71	70		73.4
KAHUKU 912	MAX		84	84	85	83			86	84	83	78	83			84	85	85	84	84			84	82	83	83	83			83	82		83.4
	MIN		71	75	69	70			72	73	72	71	75			73	74	74	73	74			70	73	72	73	73			72	70		72.3
KANEOHE MAUKA 781	MAX	83	82	82	82	82	83	81	83	79	82	79	82	82	82	80	82	83	82	81	81	80	78	80	82	80	80	81	83	80	81		81.3
	MIN	74	72	71	70	69	70	69	70	69	70	74	74	74	73	72	69	71	73	73	70	71	71	71	70	71	73	72	72	71	69		71.3
LUALUALEI 804	MAX	86	89	88	87	86	89	87	87	84	87	81	88	86	84	86	88	87	87	88	84	82	88	85	88	86	86	85	85	86	85		86.2
	MIN	76	73	73	73	71	72	76	70	74	69	73	76	76	76	71	70	70	73	74	76	71	71	71	74	74	72	73	75	74	70		72.9
MAKAPUU POINT 724	MAX	80	79	80	80	80	87	88	88	81	84	84	83	80	79	80	89	80	80	88	79	87	87	79	87	79	78	87	79	79	78		82.3
	MIN	71	72	69	69	69	76	73	72	68	74	68	75	72	73	74	75	70	73	75	69	75	75	72	75	70	72	76	62	66	68		71.6
OPAEULA 870	MAX	82	79	80	80	80	80	85	84	83	84	80	83	83	81	80	84	84	82	82	81	81	80	79	83	80	78	79	81	80	76		81.1
	MIN	68	69	69	67	67	68	65	66	66	66	66	67	70	67	67	64	64	64	68	69	67	68	64	63	67	67	69	67	66	65		66.7
PRI WAHIAWA 820.2	MAX	83	84	85	86	83	84	85	86	84	82	82	86	82	80	84	87	86	85	85	80	80	84	82	85	83	83	83	81	85	78		83.4
	MIN	69	67	69	68	66	64	64	65	66	66	67	68	68	67	67	64	64	65	68	67	68	68	63	65	68	67	67	64	65	65		66.3
WAIALUA 847	MAX	88	85	85	85	84	85	87	86	83	85	80	85	84	84	84	87	86	84	86	84	83	83	83	85	84	83	84	83	83	82		84.3
	MIN	68	68	67	67	68	66	63	65	64	65	67	67	67	66	66	64	63	65	66	68	69	68	61	63	67	63	64	66	65	64		65.7
WAIKIKI 717.2	MAX	86	86	86	87	85	86	87	87	87	87	85	86	87	85	88	88	86	86	85	85	85	85	84	85	86	84	84	85	84	84		85.7
	MIN	74	75	74	73	72	72	72	74	74	70	72	76	75	75	75	75	76	75	75	72	74	73	72	70	75	73	74	72	73	70		73.4
WAIMANALO EXP FARM	MAX	85	86	84	85	85	85	86	86	87	86	84	85	86	85	85	86	85	84	85	85	83	82	81	83	84	83	84	85	84	84		84.6
	MIN	75	74	73	74	74	74	74	75	75	74	74	78	75	74	75	75	75	74	74	72	73	72	74	75	75	76	75	74	70	68		74.0
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	82	83	83	83	83	86	83	85	81	82	77	81	83	83	86	81	81	83	82	82	84	80	81	79	84	80	79	81	81	79		81.9
	MIN	72	73	72	71	71	73	71	72	72	72	71	70	73	75	74	73	71	70	70	72	71	71	72	70	72	71	71	70	72	72		71.7
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX		78	77	77	77	77		79	77	79	78	78	79		79	78	78	77	78			80	77	78	78	77	76		78	77		77.8
	MIN		63	65	64	64	64		67	65	64	66	65	64		65	65	64	66	65			67	63	64	64	64	64		66	64		64.7
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	63	64	69	66	68	61	59	58	58	55	58	65	65	62	66	69	63	63	73	69	64	66	65	65	64	66	68	69	64	62		64.2
	MIN	48	50	43	45	41	38	38	39	42	46	44	43	42	47	48	45	46	52	49	48	48	47	45	50	41	51	48	49	46	45		45.5
HALEAKALA SUMMIT 338.4	MAX		60	62	62	63			65	67	65	59	61			59	53	55	58	62			62	51	57	54	55			56	57		59.2
	MIN		38	45	51	45			45	40	42	43	46			44	40	40	45	40			42	43	46	46	45			41	34		42.9
HANA AIRPORT 355	MAX	82	82	82	84	83	84	81	82	82	83	82	83	84	83	84	84	83	84	83	84	85	84	85	82	84	81	83	82	83	82		83.0
	MIN	71	72	70	70	68	68	68	70	69	69	69	71	70	72	73	72	71	70	72	69	72	74	73	70	72	70	68	69	68	69		70.3
KAANAPALI AIRPORT	MAX	88	84	84	86	85	85	87	86	85	85	83		85	86	86	86	87	86	85	84	85	81	85	84	87	84	83	84	84	84		85.0
	MIN	71	72	73	70	71	71	65	73	70	71	70		71	72	70	69	68	73	74	71	71	70	70	72	72	71	72	70	71	70		70.8
KAHULUI WB AP 398	MAX	86	86	87	87	88	86	87	84	88	85	88	87	87	90	87	87	90	88	87	88	86	87	86	90	86	85	86	86	86	87		86.9
	MIN	72	71	72	70	70	68	61	70	70	69	65	66	68	69	67	66	65	73	72	71	70	70	66	67	69	70	71	69	71	70		68.9
KAILUA 446	MAX	78	78	77	79	79	80	79	79	78	80	80	79	80	79	80	80	80	79	78	79	79	76	75	78	79	79	80	80	80	78		78.7
	MIN	67	68	67	66	67	64	65	67	65	65	66	66	67	67	69	70	68	68	69	66	69	69	68	67	67	66	67	66	66	66		66.9
KEAWAKAPU BEACH 260.2	MAX	90	91	90	92	91	89	88	90	83	87	84	86	90	90	89	88	88	90	93	90	90	83	89	88	87	90	90	88	89	89		88.7
	MIN	67	67	66	65	65	64	64	66	66	69	67	67	65	70	67	65	66	71	68	65	67	67	64	68	63	65	65	65	66	64		66.1
KULA SANATORIUM 267	MAX	71	75	77	73	72	72	74	74	70	71	70	72	75	81	73	74	73	74	75	71	75	72	75	74	72	75	76	75	78	74		73.8
	MIN	60	61	59	57	58	57	58	58	58	59	59	58	59	60	59	58	58	59	58	58	59	60	59	60	57	58	58	56	57	56		58.4

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	88	88	88	88	87	87	87	87	85	85	84	85	88	87	87	87	85	85	87	86	88	87	87	87	87	87	87	86	86	87		86.7
	MIN	71	70	69	71	69	68	69	71	70	72	71	69	69	71	70	70	69	72	69	70	72	72	68	71	68	69	67	68	71	67		69.8
WAILUKU 392	MAX																																
	MIN		71	72	71	71	72		70	71	72	73	74	73		74	73	73	73	74	72		70	73	72	72	70	69		70	71		71.8
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX		83	83	83	82	83	83	82	83	83	83	84	83	83	84	79	83	83	81	83	83	82	83	82	83	83	82	81	82	82		82.6
	MIN		64	66	65	66	64	65	66	65	64	64	65	65	69	67	67	66	70	68	69	67	70	66	69	67	67	68	66	67	65		66.4
HAWAII VOLCNS NP HO 54	MAX	71	68	67	68	67	70	70	72	68	72	68	67	70	72	65	72	71	71	69	69	71	70	67	72	71	71	71	70	66	70		69.5
	MIN	56	55	56	54	54	54	54	55	53	57	53	54	54	58	56	55	57	57	56	55	57	58	55	56	55	55	55	55	53	52		55.1
HILO WB AIRPORT 87	MAX	82	83	82	83	82	83	83	81	81	83	83	82	80	80	84	82	82	82	83	83	78	81	83	83	82	81	81	81	81	81		81.9
	MIN	69	69	69	69	69	66	68	68	65	68	67	67	67	69	67	68	69	69	68	68	69	70	69	69	67	69	69	67	69	65		68.1
KAINALIU 73.2	MAX	80	80	79	80	78	78	79	80	76	79	78	79	80	79	78	81	79	78	77	82	80	82	81	81	80	78	78	79	79	80		79.3
	MIN	64	66	66	63	64	64	62	65	63	66	67	63	63	66	67	64	63	68	69	63	61	64	64	65	64	65	65	63	65	65		64.6
KAMUELA 192.2	MAX	72	70	74	72	73	72	75	74	75	74	75	80	73	75	74	75	74	75	74	76	74	78	75	73	73	74	73	70	71	70		73.8
	MIN	62	60	61	60	60	60	62	61	58	61	55	58	58	60	61	61	60	60	62	58	54	54	57	57	55	56	57	60	57	58		58.8
KAMUELA AIRPORT 191	MAX	75	74	74	75	75	74	77	76	76	76	76	78	77	76	76	74	76	76	76	76	76	76	76	75	75		75	72	76	72		75.4
	MIN	56	66	48	59	54	48	59	55	56	56	56	56	55	62	62	52	52	59	54	56	54	53	54	53	58		56	59	56	65		56.2
KEAAU 92	MAX	83	83	82	82	81	82	82	82	79	82	83	82	83	83	83	83	83	83	83	85	85	85	80	83	83	84	83	83	83	81		82.6
	MIN	66	66	67	68	67	66	66	66	65	67	66	67	66	66	66	67	68	68	68	66	66	66	67	67	66	66	62	62	62	64		66.0
KEALAKEKUA 26.2	MAX	79	80	79	78	77	77	79	79	75	78	77	79	78	78	78	78	78	79	75	79	79	82	82	80	79	77	77	80	78	81		78.5
	MIN	64	66	67	65	65	65	64	65	64	66	68	66	64	66	67	65	63	68	69	64	63	66	66	64	65	65	65	63	65	65		65.3
KOHALA MISSION 175.1	MAX	81	79	79	80	80	81	81	81	81	82	81	82	82	82	82	79	82	82	80	81	82	79	81	81	83	81	79	80	79	79		80.7
	MIN	68	68	68	69	68	68	68	68	67	68	68	70	68	69	69	68	67	70	69	70	67	67	70	69	69	68	68	67	68	67		68.3
KONA AIRPORT 68.3	MAX	85	84	84	84	85	85	85	86	82	84	86	85	84	85	85	85	84	85	84	82	84	86	85	83	83	83		83	84	84		84.3
	MIN	69	70	70	72	70	67	66	66	70	70	70	73	68	67	68	72	70	70	70	70	67	66	68	68	68	68		65	65	65		68.6
KULANI CAMP 79	MAX	66	63	64	64	63	64	63	64	65	68	62	65	68	69	69	65	65	67	67	65	65	64	62	65	64	66	63	63	66	64		64.9
	MIN	52	53	52	56	51	44	48	48	48	52	48	46	46	55	48	47	50	52	53	47	48	52	50	50	48	51	50	48	48	47		49.6
MAUNA KEA BEACH 98	MAX	91	90	94	87	90	87	87	88	86	85	84	87	91	86	86	89	85	88	89	90	86	86	88	90	87	93	88	87	92	91		88.3
	MIN	77	78	73	75	73	72	73	72	72	71	72	73	72	75	74	73	73	75	75	75	71	74	73	72	75	75	72	74	74	73		73.5
MAUNA LOA SLOPE OBS	MAX	60	62	60	59	58	56	60	61	60	60	63	59	53	54	52	49	54	56	59	58	58	51	57	60	59	58	60	59	59	59		57.8
	MIN	38	41	39	40	39	40	40	42	44	43	44	44	40	41	37	32	39	37	38	39	38	38	37	40	39	39	41	40	41	42		39.7
MOUNTAIN VIEW 91	MAX	79	73	79	75	77	76	79	79	72	77	75	75	79	79	75	80	79	75	74	78	80	72	72	79	80	80	79	77	76	76		76.9
	MIN	64	65	64	64	63	59	61	62	57	58	60	62	61	61	63	62	63	64	64	61	61	66	63	63	62	61	63	61	62	59		62.0
NAALEHU 14	MAX	81	82	82	78	81	81	82	82	80	82	77	80	80	82	82	83	81	80	77	77	82	83	79	83	82	82	82	83	83	83		81.1
	MIN	67	67	69	66	66	66	67	67	66	68	68	67	67	67	67	69	70	69	67	67	68	68	68	68	69	68	68	68	65	66		67.4
OOKALA 223	MAX	81	81	81	81	81	82	82	80	81	80	81	81	82	80	82	80	81	83	78	81	82	83	82	80	81	81	81	82	80	80		81.0
	MIN	70	69	68	68	69	67	68	70	69	69	68	71	69	70	70	70	70	71	68	69	67	71	69	69	71	67	70	68	68	67		69.0
OPIHIHALE 2 24.1	MAX	82	80	76	77	80	78	77	74	75	78	81	79	77	79	77	81	76	80	79	76	81	80	82	80	79	78	79	76	78	72		78.2
	MIN	63	64	63	62	62	62	61	61	63	67	64	63	66	66	63	64	67	62	62	60	61	63	62	62	63	63	61	62	63	60		62.8
PAHALA 21	MAX	81	82	82	80	82	81	81	80	78	82	78	79	81	82	78	84	81	79	82	83	82	83	76	81	80	81	83	82	85	83		81.1
	MIN	64	67	67	64	62	63	62	63	61	61	65	64	64	68	65	65	66	66	67	65	63	67	64	64	64	63	64	64	63	64		64.3
UPOLU POINT USCG 159.2	MAX	82	80	83	80	83	83	83	83	84	81	84	85	85	85	85	83	84	84	84	84	85	82	88	83	83	82	82	82	82	83		83.2
	MIN	70	68	68	71	70	69	70	70	69	70	70	76	70	69	71	71	71	72	72	71	70	71	72	71	70	70	70	69	70	70		70.4

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.41	.44	.45	.41	.32	.43	.34	.35	.41	.30	.28	.28	.45	.34	.40	.40	.38	.27	.37	.43	.34	.37	.32	.34	.35	.39	.29	.28	.30	.33		10.77
	WIND	233	262	262	254	246	148	133	154	122	89	153	179	223	198	177	165	174	220	234	253	224	227	189	194	224	223	227	202	271	257		6117
	MAX	90	87	88	87	87	89	89	89	88	86	91	90	91	86	91	90	89	88	88	87	88	87	86	89	89	89	86	88	85	86		88.1
	MIN	70	70	69	69	68	68	68	68	68	65	65	70	70	71	71	70	70	70	68	69	70	70	68	69	70	69	68	68	68	68		68.8
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.27	.40	.36	.30	.32	.32	.30	.15	.15	.12	.17	.22	.15	.38	.14	.34	.10	.21	.30	.31	.24	.23	.25	.17	.29	.29	.29	.23	.30	.27		7.57
	WIND	36	45	48	40	33	29	22	17	15	9	13	14	31	19	17	20	19	24	31	32	24	7	19	23	26	34	34	28	48	39		796
	MAX	93	93	93	91	93	94	91	84	84	87	85	87	86	87	91	93	92	90	92	92	90	78	88	92	92	90	90	90	91	90		89.6
	MIN	70	71	69	70	70	68	67	68	69	69	68	69	68	70	70	70	73	70	71	68	70	68	67	67	71	67	67	67	67	67		68.9

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUGAR CO.
ANAHOLA 1111	A 0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDEWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1	0465	02	KAWAIHAU	2	22 06	159 22	350					LIHUE PLANTATION
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 11	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1036	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1093	1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HOPIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ICIILIOLA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	01	HANALEI	1	22 09	159 34	690		WI		S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A			KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A			KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.T	4650	03	WAIMEA	3	22 02	159 41	2150					KEKAHA SUGAR CO.
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIOLA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A			HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 2	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M + M 10 1	6097	02	KOLOA	2	21 55	159 28	300					GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	0[illegible]	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	6893	01	LIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1 04	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740					LIHUE PLANTATION CO.
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 99	A 8949	02	KOLOA	2	21 58	159 31	2100		MO			MC BRYDE SUG CO LTD
WAIAHI LOWER 1 54	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1 52	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A 0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A			DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J. L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			EWA PLANTATION CO
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	1384	05	WAIALUA	5	21 33	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 7-2..	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST + GEODETIC
*HONOLULU WBF 7 3	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
H S P A EXP STA 7 7	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 9 5.1	3220	01	KOOLAULOA	1	21 36	157 54	10					GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A 3741	05	WAIALUA	5	21 34	157 59	1180		WI			WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3	3825	02	KOOLAUPOKO	1	21 40	158 00	1050					HAWAII NATIONAL GUARD
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C + F OFFICER HEOG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A			USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A 5650	04	WAIANAE	4	21 29	158 08	1500		WI			U S NAVY
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LUM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A 5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A			CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410					EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					FEDERAL AVIATION ADM.
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 7 5A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
PAEULA 873	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A			WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLAT 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1	7933	03	EWA	3	21 25	157 58	240				C	JAMES MUMENO
PORTL CK R AD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO. JR.
PRI WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 7.9	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900					JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 78.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A			WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	1 5	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 778	A 9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 8 3	A 92 8	04	WAIANAE	4	21 29	158 09	1575		WI			CAPITAL INVEST CO
WAIAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIAHOLE WTR CO LTD
WAIKANE 887	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE RES V. 723.2	A 9495	02	HONOLULU	2	21 18	157 45	170		WI			BOARD OF WTR SUPPLY
WAILUPE VLY S H 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO 794	A 9521	01	KOOLAUPOKO	1	21 21	157 44	60		8A			CLOSED 8/31/69
WAIMEA 892	A 9591	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 7.1	9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6	[illegible]046	01	MOLOKAI	1	21 04	156 52	60				C	W. J. CARSTEN
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSPITA
KLENELELE PEN 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		WI			MOLOKAI RANCH. LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL + LIBBY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A		C	ALOHA AIRLINES
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
ISLAND OF MOLOKAI												
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		TW		C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI		C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI		C	STATE DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 53	156 55	1430		MO			DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI		C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040		WM			DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE COMPANY
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	U OF MICH MT HKALA OBSY
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM + SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KUALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM + SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CURELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM + SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800		MO			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM + SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		WI			KAUPO RANCH CO.
PAUWELA 490	A 7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500		MO			PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM + SUG CO
PUU PAHI 352	8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM + SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8753	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		WM			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		WI			KOHALA DITCH CO LTD
EAST MONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240		MO			KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770		MO			KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		MO			STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	J	U S WEATHER BUREAU
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COMPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEANAKOLU CAMP 124.7	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV. OF FORESTRY
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840		WI			KOHALA DITCH CO LTD
KIOLAKAA A + F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		7A			KOHALA SUGA9 CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI		C	U S WEATHER BUREAU

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	↕ DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
KULANI SCHOOL SITE 78 A	5021	02	S HILO	2	19 35	155 20	5735		#1			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L + N RES
LANIMAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV. OF PARKS
MANUKA 2 A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KUHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS 38	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1 A	6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1 A	6270	01	N KOHALA	1	20 06	155 50	1380		VAR			PAHUA RANCH
MOAULA 18 A	6407	03	KAU	3	19 11	155 30	600		MO			HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14 A	6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28 A	6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179 A	6806	01	N KOHALA	1	20 14	155 45	75		6A			KUHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAURAHOLMOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5 A	7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
RAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
RAHUA 65	7457	02	PUNA	2	19 30	154 57	670		6A			RUNA SUGAR COMPANY
RAKAO 37 A	7643	03	KAU	3	19 22	155 28	5000		MO			HAWAIIAN RANCH CO. INC.
RARAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KLA SUGAR CO.
RARAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KLA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEREEKEO SUGAR CO
PIIHUNUA 89 A	8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107 A	8063	32	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1 A	8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIHE 120 A	8393	01	HAMAKUA	1	19 54	155 24	7750		MO			KUKAIAU RANCH CO
ISLAND OF HAWAII												
PUU LAAU 102.1 A	8452	05	HAMAKUA	5	19 50	155 36	7440		MO			STATE DIV OF FISH-GAME
PUU LEHUA 73 A	8463	04	N KONA	4	19 34	155 49	4880		MO			GREENWELL RANCH
PUU MALI 113 A	8515	01	HAMAKUA	1	19 55	155 26	6960		MO			KUKAIAU RANCH CO
PUUOKUMAU 167 A	8548	01	N KOHALA	1	20 12	155 50	1800		7A			KUHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A			DON WINTERS
PUU WAAWAA 94.1 A	8555	05	N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84 A	8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3 A	8675	03	KAU	3	18 57	155 41	400		WI			HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305				C	FEDERAL ELECTRIC CORP
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH C
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U. S. COAST GUARD
WAIAKEA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIR
WAIKANONOULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830				F	KAHUA RANCH
SEPTEMBER 1969												
CLOSED STATION												
WAIMANALO 794, OAHU	9521	01	KOOLAUPOKO	01	21 21	157 44	60		8A			CLOSED 8/31/69
NEW STATION												
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	01	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\+ And also on an earlier date or dates.

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table; and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

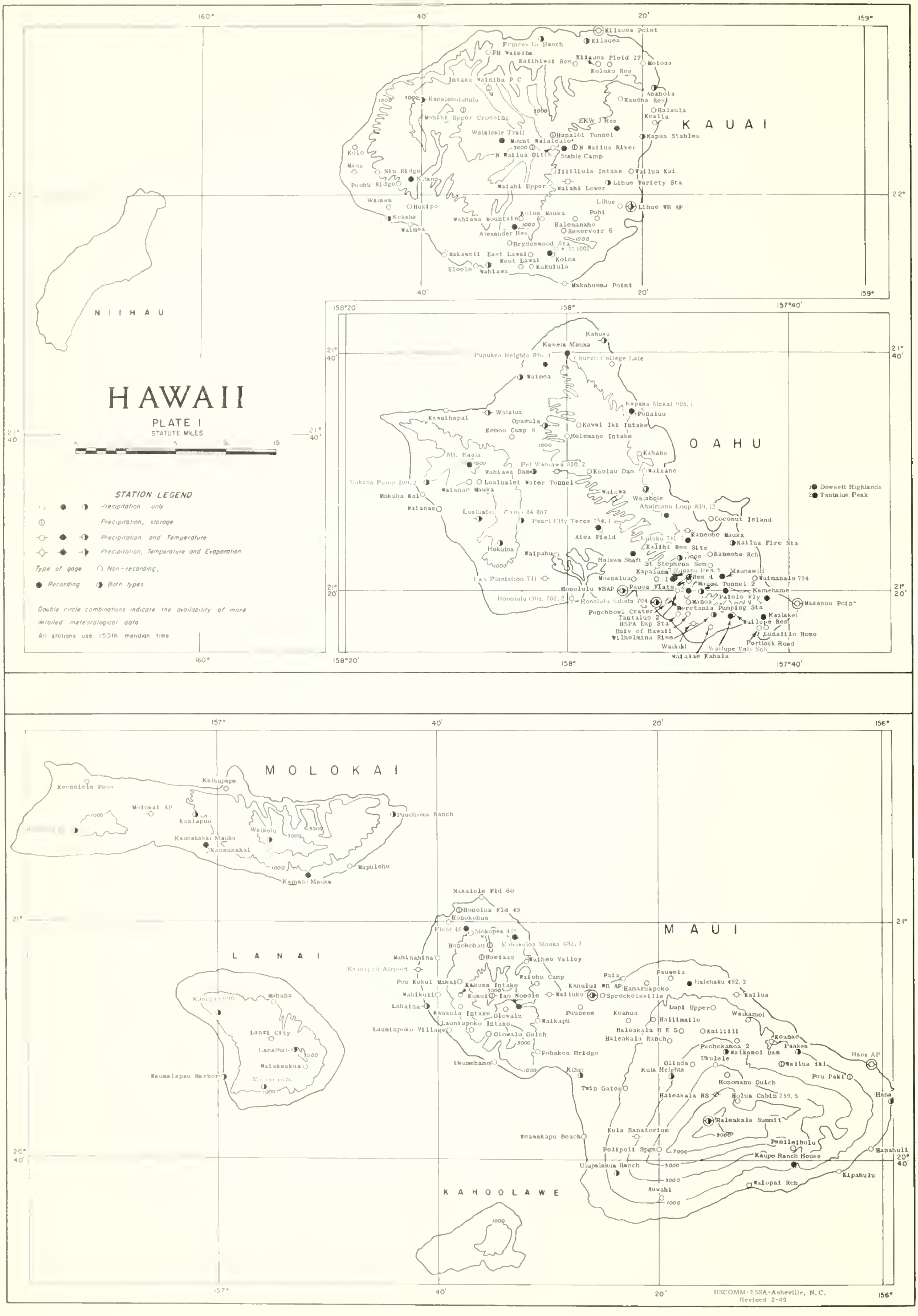
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

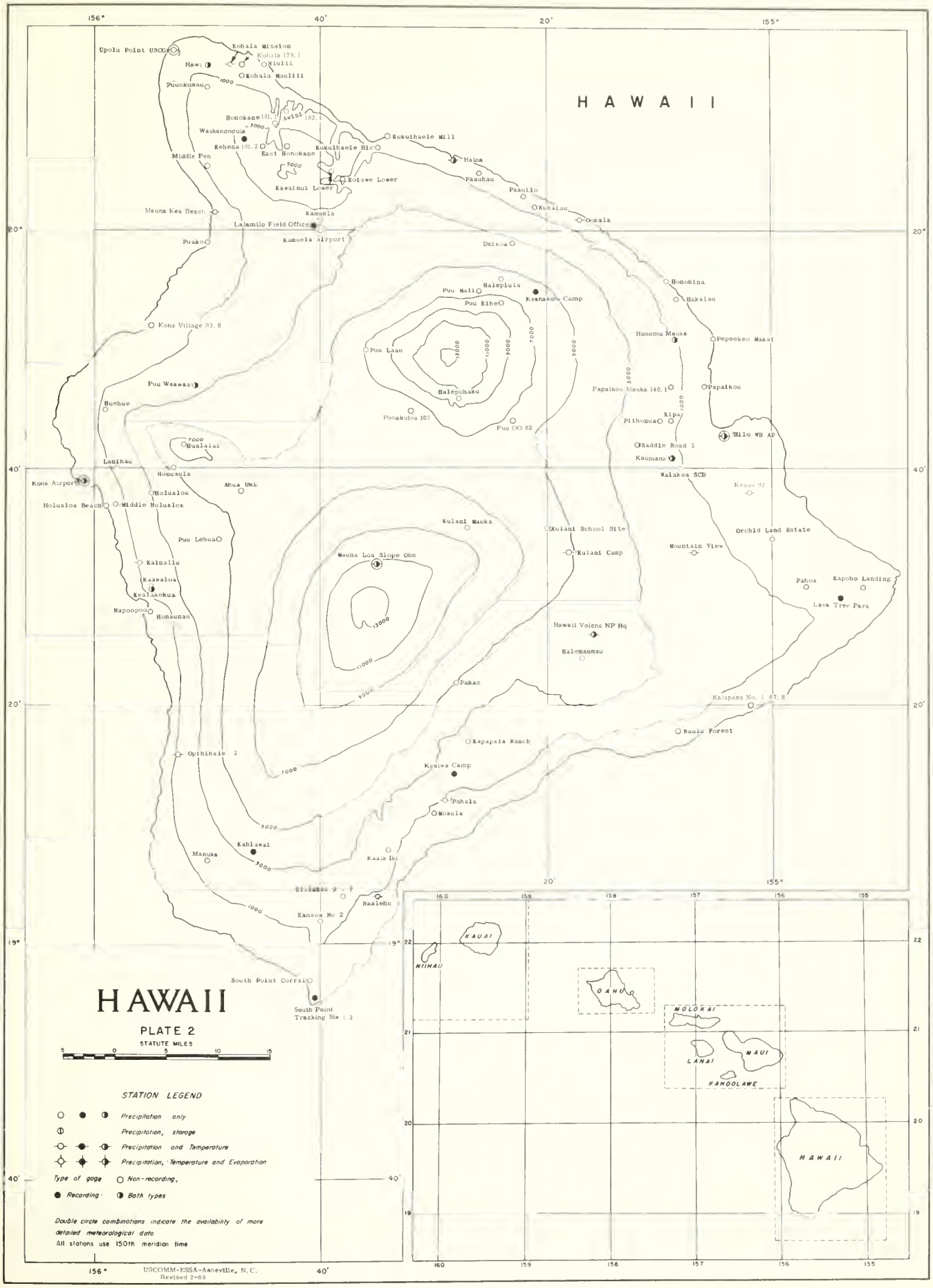
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-01/02/70-890


HAWAII
PLATE I
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
K A U A I
N I I H A U
O A H U
M O L O K A I
L A N A I
M A U I
K A H O O L A W E
Kilauea Point
Kilauea
Princeville Ranch
PH Wainiha
Kaiihiwai Res
Kilauea Field 17
Moloaa
Koloko Res
Intake Wainiha P C
Anahola
Kanaloahuluhulu
Kanoha Res
Halaula
Kealia
Mohihi Upper Crossing
EKW 3 Res
Waialeale Trail
Hanalei Tunnel
Kapaa Stables
Mount Waialeale
N Wailua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Iiiiliula Intake
Wailua Kai
Kitano
Puohu Ridge
Waiahi Upper
Waiahi Lower
Lihue Variety Sta
Waiawa
Hukipo
Lihue
Lihue WB AP
Kekaha
Koloa Mauka
Puhi
Waimea
Wahiawa Mountain
Halenanaho
Alexander Res
Reservoir 6
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Kukuiula
Eleele
Wahiawa
Makahuena Point
Kahuku
Kawela Mauka
Pupukea Heights
Church College Laie
Waimea
Kapaka Makai
Punaluu
Kawaihapai
Waialua
Opaeula
Kawai Iki Intake
Kemoo Camp 8
Helemano Intake
Kahana
Mt. Kaala
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump
Lualualei Water Tunnel
Waianae Mauka
Waiawa
Makaha Kai
Waiahole
Waianae
Ahuimanu Loop
Lualualei
Pearl City Terce
Coconut Island
Aiea Field
Kaneohe Mauka
Kailua Fire Sta
Hokuloa
Kalihi Res Site
Waipahu
Kaneohe Rch
Halawa Shaft
St Stephens Sem
Maunawili
Waimanalo
Ewa Plantation
Moanalua
Kapalama
Res 4
Honolulu WBAP
Pauoa Flats
Manoa Tunnel 2
Kamehame
Palolo Vly
Honolulu Obs.
Honolulu Substa
Makapuu Point
Punchbowl Crater
Manoa
Beretania Pumping Sta
Kaalakei
Tantalus 2
Wailupe Res
HSPA Exp Sta
Univ of Hawaii
Lunalilo Home
Wilhelmina Rise
Portlock Road
Waikiki
Wailupe Valy Sch
Waialae Kahala
Dowsett Highlands
Tantalus Peak
Keoneiele Pens
Kalaupapa
Molokai AP
Kualapuu
Puuohoku Ranch
Waikolu
Kaunakakai Mauka
Kaunakakai
Mapulehu
Kamalo Mauka
Nakaiele Fld 60
Honolua Fld 49
Honokohua
Field 46
Mokupea
Honokohau
Haelaau
Wailuku Valley
Mahinahina
Kaanapali Airport
Waiehu Camp
Puu Kukui Makai
Kahoma Intake
Paia
Pauwela
Kahului WB AP
Hamakuapoko
Haleahaku
Wahikuli
Kukui
Iao Needle
Wailuku
Sprecklesville
Kailua
Lahaina
Kauaula Intake
Olowalu
Puunene
Kaupo Upper
Launiupoko Intake
Waikapu
Keahua
Waikamoi
Launiupoko Village
Olowalu Gulch
Haliimailo
Haleakala B E S
Kailiili
Koanae
Haleakala Ranch
Puohokamoa 2
Paakea
Pohakea Bridge
Waikamoi Dam
Hana AP
Ukulele
Olinda
Wailua Iki
Kula Heights
Puu Paki
Ukumehame
Kihei
Honomanu Gulch
Twin Gates
Haleakala RS
Holua Cabin
Hana
Haleakala Summit
Mahana
Lanai City
Lanaihale
Waiakeakua
Kaumalapau Harbor
Kula Sanatorium
Keawakapu Beach
Poliipoli Spgs
Kaupo Ranch House
Hanahuli
Ulupalakua Ranch
Kipahulu
Waiopai Rch
Auwahi
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HAWAII
Upolu Point USCG
Kohala Mission
Kohala 179.1
Hawi
Niulii
Kohala Mauliii
Puuokumau
Honokane 181.1
Kwiki
182.1
Waikanonoula
Kehena 181.2
East Honokane
Middle Pen
Kukuihaele Mill
Kukuihaele Hic
Koiawe Lower
Kawaihui Lower
Haina
Paauhau
Paauilo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Hakalau
Baleplula
Puu Mali
Puu Kihe
Keanakolu Camp
Kona Village 93.8
Puu Laau
Halepohaku
Honomu Mauka
Pepeekeo Makai
Papaikou Mauka 140.1
Papaikou
Puu Waawaa
Buehue
Pohakuloa 107
Puu OO 82
Kipu
Pithonua
Hilo WB AP
Saddle Road 1
Kaumana
Walakea SCD
Kealakekua
Lanihau
Honaunau
Kona Airport
Holualoa
Holualoa Beach
Middle Holualoa
Ahua Umi
Kulani Mauka
Kulani School Site
Kulani Camp
Mauna Loa Slope Obs
Puu Lehua
Kainaliu
Kaawaloa
Napoopoo
Hawaii Volcns NP Hq
Halemaumau
Pahoa
Kapoho Landing
Lava Tree Park
Orchid Land Estate
Mountain View
Kalapana No. 1 67.8
Pakao
Naulu Forest
Kapapala Ranch
Opihihale 2
Keaiwa Camp
Pahala
Moaula
Kahlawai
Manuka
Kaala Iki
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1, 2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
PLATE 2
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
USCOMM-ESSA-Asheville, N.C.
Revised 2-69

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
OCTOBER 1969
Volume 65 No. 10

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CLIMATOLOGICAL DATA

Station		Temperature													Precipitation									
											No. of Days								Snow, Sleet			No. of Days		
											Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														2.77	- 2.15	.66	28	.0	0				0
KANALOHULUHULU 1075		71.7	51.4	61.6		78	8	43	31+		0	0	0	0	2.78		.98	28	.0	0		4	2	0
KAPAA STABLES 1104	A														2.41		.50	22	.0	0			1	0
KILAUEA FIELD 17 1135	A														4.49	- 2.58			.0	0				
KILAUEA POINT 1133		82.5	71.3	76.9		86	27+	69	10		0	0	0	0	2.72		.75	10	.0	0		8	1	0
KOLOA 936	A														4.60	- .71	1.28	28	.0	0				1
LIHUE W8 AP 1020.1	R	83.0	71.1	77.1	.2	85	17+	63	3		0	0	0	0	3.15	- .88	1.13	27	.0	0		6	2	2
MANA 1026		86.9	66.0	76.5	- .5	90	12+	64	21+		2	0	0	0	.32	- 1.73	.13	27	.0	0		1	0	0
N WAILUA DITCH 1051	A														9.79				.0	0				
PH WAINIHA 1115															8.69	.45	2.73	11	.0	0		11	5	2
PUEHU RIDGE 1040															3.68		1.56	29+	.0	0		5	2	2
WAHIAWA 930	A														2.08	- .94			.0	0				0
WAIAHI LOWER 1054		79.3	63.3	71.3		83	31	58	5		0	0	0	0	5.55		1.02	22	.0	0		12	5	1
WAIMEA 947															.51	- 1.40	.43	27	.0	0		1	0	0
ISLAND				72.7											3.82				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															.73		.57	21	.0	0		1	1	0
HONOLULU W8FC 703	R	88.0	72.9	80.5	2.3	90	28+	69	6+		6	0	0	0	.96	- .88	.68	21	.0	0		2	1	0
KAHUKU 912	A	83.5M	69.6M	76.6M	- .7	86	10	64	6		0	0	0	0	2.23	- 1.93			.0	0				
KANEOHE MAUKA 781		81.9	69.5	75.7	- .4	87	12	67	24+		0	0	0	0	2.92	- 2.83	.89	12	.0	0		7	2	0
KOOLAU OAM 833															5.45	- 2.35	1.73	12	.0	0		9	4	1
LUALUALEI 804		86.0M	69.3M	77.7M		89	8	65	31+		0	0	0	0	.62		.34	21	.0	0			0	0
MAKAPUU POINT 724		82.7	71.5	77.1		88	19+	67	24		0	0	0	0	.63	- 2.37	.18	11	.0	0		3	0	0
NUUANU RES 4 783															2.00	- 6.93	.44	21+	.0	0		5	0	0
OPAEULA 870	A	82.9	63.6	73.3	.9	87	28+	61	31+		0	0	0	0	2.78	- 2.07			.0	0				
PALOLO VALLEY 718															5.70	- 5.13	1.36	12	.0	0		9	4	3
PRI WAHIAWA 820.2	A	84.4	63.2	73.8		89	10	59	6		0	0	0	0	1.19				.0	0				0
PUNALUU 884	A														3.23				.0	0				
WAHIAWA OAM 863	A														2.20				.0	0				0
WAIAHOLE 837	A														8.57	- 3.51			.0	0				
WAIALUA 847	A	85.0	63.8	74.4	- 1.0	88	30+	61	31+		0	0	0	0	.77	- 1.92	.58	12	.0	0		1	1	0
WAIKIKI 717.2		86.3	69.0	77.7		90	26	65	24+		1	0	0	0	.18		.11	12	.0	0		1	0	0
WAIMANALO EXP FARM		84.3	69.6	77.0		88	27	66	25+		0	0	0	0	1.08		.54	12	.0	0		3	1	0
WAIPAHU 750	A														1.18	- 1.16	.45	21	.0	0			0	0
ISLAND				76.4											2.36				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														2.48	.06	1.36	21	.0	0				1
MAPULEHU 542															2.67	- .74	1.20	20	.0	0		7	1	1
MAUNALOA 511	A														.62	- 1.75			.0	0			0	0
MOLOKAI AP 524		81.8	70.0	75.9		87	28	65	6+		0	0	0	0	1.61		1.25	21	.0	0		3	1	1
ISLAND				75.9											1.85				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	78.4M	64.3M	71.4M	.7	81	25	63	29+		0	0	0	0	1.33	- 1.62	.73	21	.0	0			1	0
ISLAND				71.4											1.33				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														2.38	- 1.91	1.02	22	.0	0		6	2	1
HALEAKALA RS 338		64.4	44.3	54.4		73	9	39	30		0	0	0	0	.72		.28	20	.0	0		3	0	0
HANA AIRPORT 355		83.2	68.0	75.6		85	27	64	5		0	0	0	0	2.50		.81	13	.0	0		7	2	0
HONOKOHUA 493	A														1.08	- 1.60	.26	21	.0	0			0	0
KAANAPALI AIRPORT		84.8M	67.6M	76.2M		88	29	64	2		0	0	0	0					.0	0				
KAHULUI W8 AP 398	R	86.6	65.6	76.1	- 1.2	90	30+	60	6		3	0	0	0	.31	- .56	.15	12	.0	0		2	0	0
KAILUA 446		79.6	64.4	72.0	- .7	81	19+	58	18		0	0	0	0	3.52	- 5.80	1.07	21	.0	0		7	3	1
KEANAE 346	A														5.10	-10.25			.0	0				
KIPAHULU 258															2.67	- 5.63	1.10	21	.0	0		7	1	1
KULA SANATORIUM 267		73.3	56.8	65.1	- 1.1	76	27	54	18		0	0	0	0	.55	- 1.71	.21	21	.0	0		1	0	0
LAHAINA 361		86.1	67.8	77.0		88	15+	66	31+		0	0	0	0	.00	- 1.00	.00		.0	0		0	0	0
PAIA 406															.80	- 1.36	.35	1	.0	0		3	0	0
WAILUKU 392		80.8M	70.0M	75.4M	- 1.6	84	27	67	30+		0	0	0	0	.55	- 1.31			.0	0				0
ISLAND				71.5											1.68				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		82.6	66.1	74.4	.4	85	27	64	31+		0	0	0	0	1.56	- 3.69	.58	25	.0	0		4	1	0
HAWAII VOLCNS NP HQ 54		71.7	54.3	63.0	.1	77	27	47	2		0	0	0	0	1.99	- 4.89	.65	21	.0	0		6	1	0
HILO W8 AIRPORT 87	R	82.8	66.2	74.5	- .6	85	26+	64	31+		0	0	0	0	3.19	- 7.61	1.28	21	.0	0		10	1	1
HUEHUE 92.1	A														1.63	- 1.96			.0	0				0
KAINALIU 73.2		79.5	62.8	71.2		83	27	61	31+		0	0	0	0	2.63	- 3.57	.62	11	.0	0		7	2	0

See Reference Notes Following Station Index
SPECIAL WEATHER SUMMARY ON PAGE 111

CLIMATOLOGICAL DATA

Station		Temperature													Precipitation									
										No. of Days									Snow, Sleet			No. of Days		
										Max.		Min.												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191		76.6	52.0	64.3		80	26+	45	24		0	0	0	0	.08		.08	21	.0	0		0	0	0
KEAAU 92		83.9	65.4	74.7	.3	88	27+	62	31+		0	0	0	0	4.25	- 8.13	1.47	21	.0	0		12	1	1
KEALAKEKUA 26.2		79.1	63.2M	71.2M		83	27	61	11+		0	0	0	0	3.07		.68	4	.0	0		8	3	0
KONA AIRPORT 68.3		84.1	65.7	74.9		86	3+	62	3		0	0	0	0	.35		.30	10	.0	0		1	0	0
KUKUIHAELE HIC 199															1.76	- 4.18	1.15	25	.0	0		3	1	1
KULANI CAMP 79		65.3	46.7	56.0		71	26	40	19		0	0	0	0	1.81		.75	21	.0	0		6	1	0
MAUNA KEA BEACH 98		87.1	70.9	79.0		95	9	68	31		4	0	0	0	.02		.02	27	.0	0		0	0	0
PAHALA 21		81.4	62.9	72.2	- 1.0	85	25	60	31+		0	0	0	0	3.95	- .06	.96	19	.0	0		9	2	0
POHAKULOA 107	A														.00		.00		.0	0		0	0	0
PUAKO 95.1	A														.00		.00		.0	0		0	0	0
PUU WAAWAA 94.1	A														.55	- 2.33	.27	30	.0	0		2	0	0
UMIKOA 118															.48	- 4.47	.24	23	.0	0		1	0	0
WAIAKEA SCD 88.2															3.59		1.17	21	.0	0		8	2	1
ISLAND				70.5											1.72				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 95° ON THE 9TH AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 34° ON THE 29+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 18.60 AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 11 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.61 ON THE 11TH AT MOUNT WAIALEALE 1047, KAUAI

See Reference Notes Following Station Index

HAWAII - OCTOBER 1969

SPECIAL WEATHER SUMMARY

Dry weather, which had been adversely affecting many of the lower elevation crop and pasture lands during the previous months, became more widespread and severe in October, with rainfall on the northern two-thirds of Hawaii Island, the west and south coasts of Maui, all of Lanai and the southwest coast of Kauai averaging less than 25 percent of the monthly mean.

Of 216 climatological stations reporting, only 8 (4 percent) reached or exceeded their normal rainfall for October. Fifty-one stations (24 percent) recorded less than one-fourth of the October normal, 76 (35 percent) between one-fourth and one-half of normal, and 81 (38 percent) from one-half to slightly less than normal.

The dry weather has been most persistent along Kauai's southwest and eastern coasts, Oahu's western and southern coasts and central highlands, western Molokai, all of Lanai, Maui's west coast, central valley, and western slopes of Haleakala, and all of Hawaii Island (except the Hamakua coast and the north Kohala, south Hilo and Puna district). During the first 10 months in 1969 (January through October) rainfall in those areas was below normal in from 7 to 10 months and -- at 16 climatological stations -- for 6 consecutive months or more (Table II).

The effects of the dry weather included:

(1) A water emergency (from October 24 to November 7) in the Lalamilo growing area of Hawaii Island, with irrigation restricted to daytime use only. Some ranches in north Kona began hauling water.

(2) An increased fire hazard. A fire which began on September 24 in the south Kohala district burned for over a week, consuming an estimated 37,000 acres of forest and brush in a strip roughly 14 miles long and 3 miles wide.

(3) Dry pastures in the Waimea, south Kohala and Kona areas on Hawaii; in the Ulupalakua, Waikapu and western areas on Maui; lower leeward Oahu; and in west and south Kauai.

Table I

Stations with Less Rain in October 1969 than in Any Previous October

(25) years of record or more, only)

Station	Length of Recd (Yrs.)	Prev. Least Oct Tot.	Oct. 1969
OAHU		(Inches)	(Inches)
Nuuanu Reservoir #4	64	2.27	2.00
Waialae-Kahala	46	0.28	0.25
HAWAII			
Ahua Umi	45	0.13	0.10
Holualoa	40	1.58	1.20
Honohina	75	2.76	2.21
Honomu Mauka	30	5.04	4.35
Papaikou Mauka	43	4.77	4.23
Puu Lehua	45	0.35	0.30

Table II

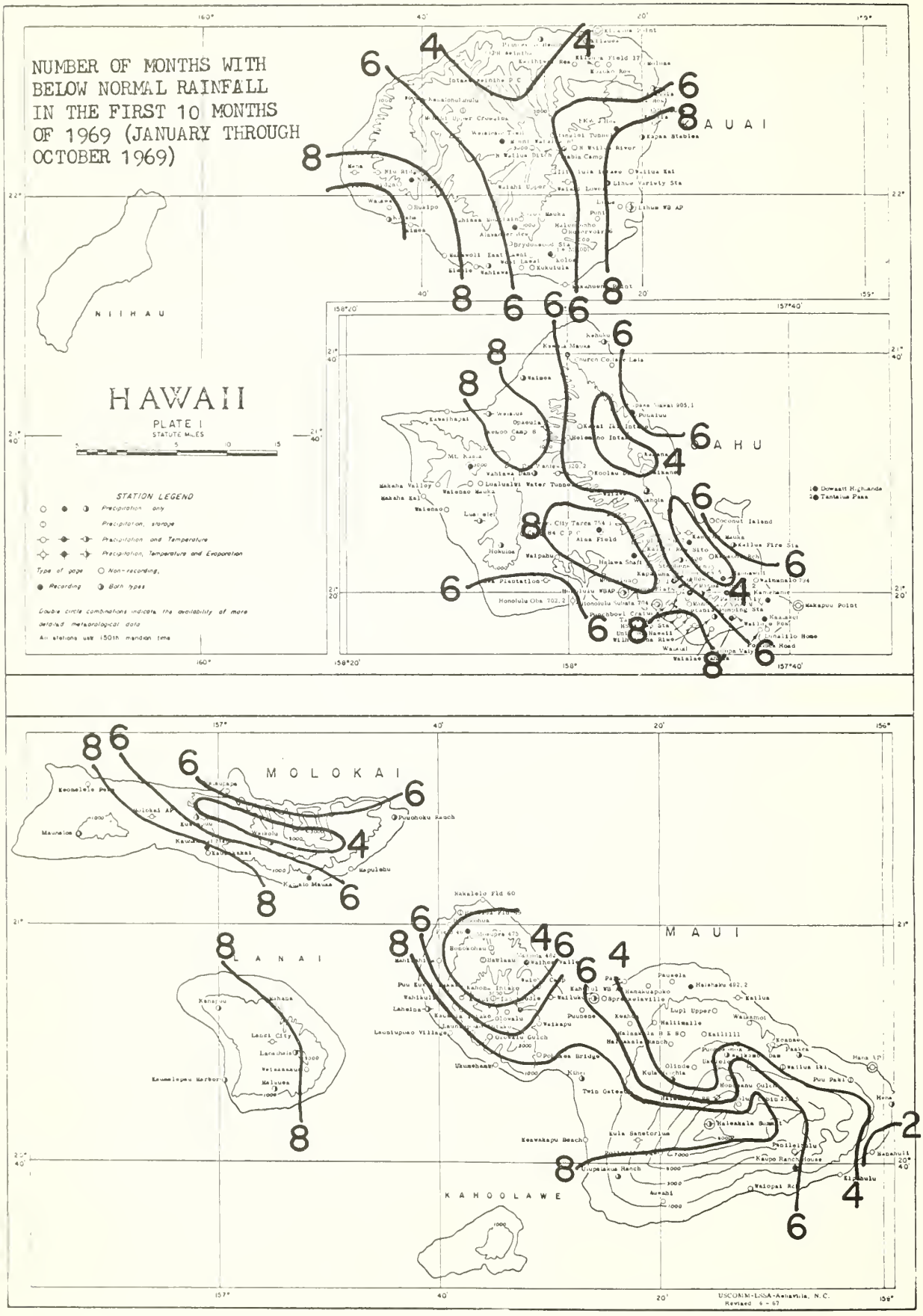
NUMBER OF CONSECUTIVE MONTHS WITH RAINFALL BELOW NORMAL JANUARY THROUGH OCTOBER 1969

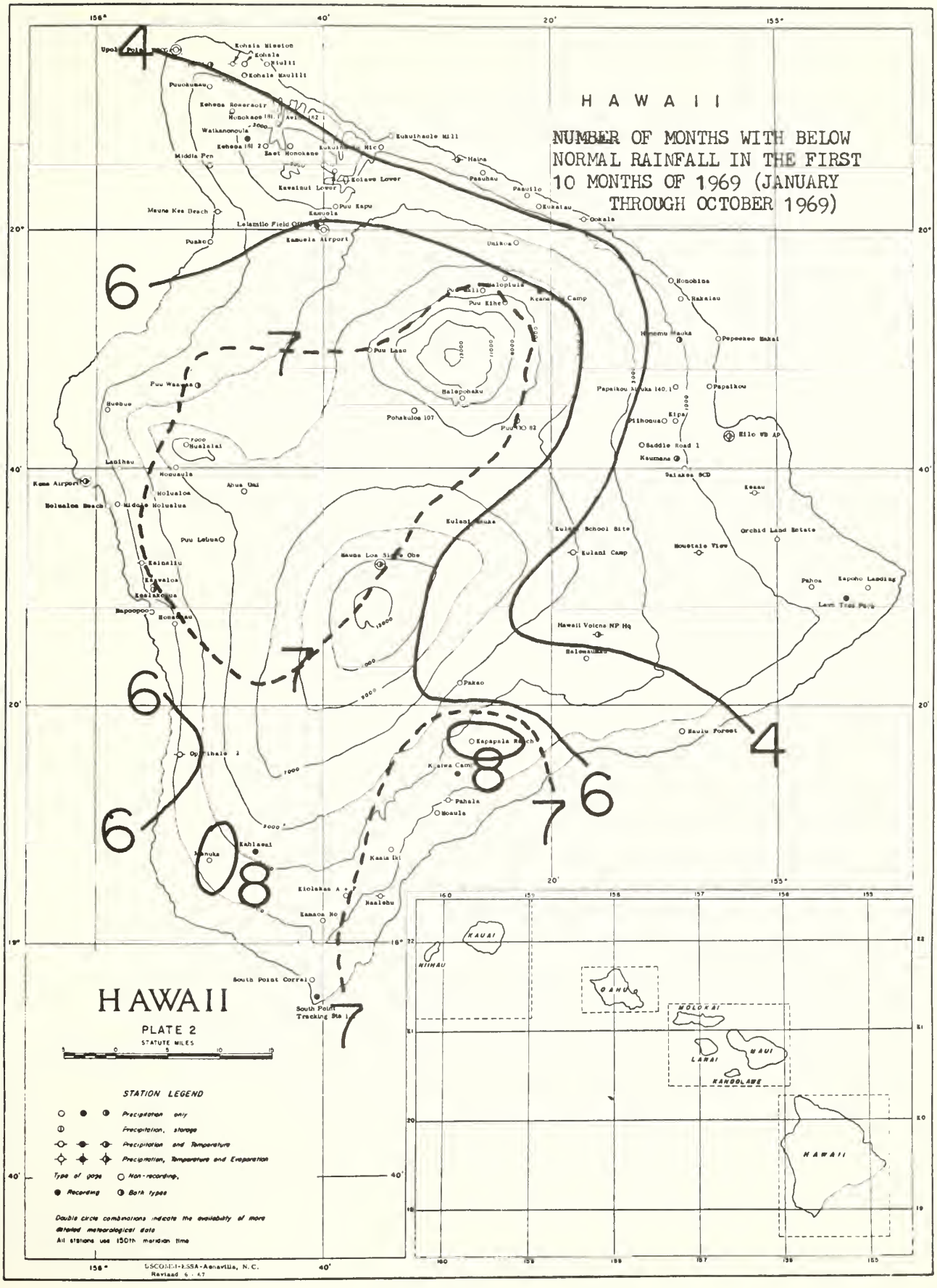
(6 consecutive months or more, only)

Waiawa, Kauai	10
Kekaha, Kauai	10
Mana, Kauai	9
Kemoo Camp 8, Oahu	9
Maunaloa, Molokai	9
Kaunakakai, Molokai	9
Waiakeakua, Lanai	9
Lahaina, Maui	9
Manuka, Hawaii	9
Kapapala Ranch, Hawaii	9
Moaula, Hawaii	9
Haleakala Summit, Maui	8
Ahua Umi, Hawaii	8
Hualalai, Hawaii	7
Kihei, Maui	6
Mauna Loa Slope Observatory, Hawaii	6

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ESSA-Regional Climatologist
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Honolulu, Hawaii 96811

Russell Dorr
ESSA-Acting State Climatologist
P. O. Box 3650
Honolulu, Hawaii 96811


NUMBER OF MONTHS WITH BELOW NORMAL RAINFALL IN THE FIRST 10 MONTHS OF 1969 (JANUARY THROUGH OCTOBER 1969)
NIIHAU
HAWAII
PLATE I
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
KAUAI
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
USCOMM-ESSA-Asheville, N.C.
Revised 6 - 67


HAWAII
NUMBER OF MONTHS WITH BELOW NORMAL RAINFALL IN THE FIRST 10 MONTHS OF 1969 (JANUARY THROUGH OCTOBER 1969)
HAWAII
PLATE 2
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
USCOMM-ESSA-Asheville, N.C.
Revised 6 - 67
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
Upolu Point
Kohala Mission
Kohala
Niulii
Kohala Mauliii
Puukapuau
Kohala Reservoir
Hunokaoe
Waikanonoula
Kohala
East Honokane
Middle Pen
Kukuihaule Mill
Haina
Pauuhau
Pauuilo
Kukaiau
Kawaihui Lower
Kolaiwa Lower
Puu Kapu
Kamuela
Kamuela Airport
Mauna Kea Beach
Pukoo
Waimea
Honokoa
Hakalau
Puu Kihe
Keamuku Camp
Puu Lau
Halepohaku
Pohakuloa 107
Puu 82
Puu Waawaa
Huehue
Waiaha
Hualalai
Lalihau
Kona Airport
Honuaula
Holualoa
Ahua Uai
Holualoa
Kaimalu
Kaiwaloa
Kealakekua
Napoopoo
Honaunau
Puu Lehua
Opihihale 3
Kahlaeai
Kaauka
Kaalaiki
Kiolakaa A
Naalehu
Kamaoa No
South Point Corral
South Point Tracking Sta
Mauna Loa Slope Obs
Kulani Camp
Kulani School Site
Kulani Mauka
Hawaii Volcns NP Hq
Halemaumau
Pakaoo
Kapapala Ranch
Kaiwa Camp
Pahala
Hoaula
Hauiu Forest
Honohina
Papaikou Mauka 140.1
Papaikou
Kipu
Mihoouua
Hilo WB AP
Saddle Road 1
Kaumana
Waiakea SCD
Keaau
Orchid Land Estate
Houstale View
Pahoa
Kapoho Landing
Lava Tree Park
Pepeekeo Makai
Nanamu Mauka

DAILY PRECIPITATION

HAWAII
OCTOBER 1969

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • •																																	
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	2.77	.25	.30		•	•	.12	.03	.11	.03	.15	•	•	.34		.04	.02		•	•	.55	.13	.04					.66				
BRYDESWOOD STA 985	A	2.31	.17	.17	.01	•	•	.01	.04	.13	.03	.05					.02	.08	.01	•	•	.28	.02	.16	.01	.01	•	•	.33	.76	.01		.01	
EAST LAWAI 934	A	3.18	.59	.30					.05	.14	.06	.06	•	•	.15		T	.13	.02	•	•	.27	.04	.22			•	•	.83	.10	.20		.02	
ELEELE 927	A	2.00	.04	.04	T					.05	.02	.02					.06		.03	•	•	.08		.05			•	•	.89	.67	.05			
HALAULA 1110	A	3.36	.34	.19	.13	•	•	.12	.07	.04	.02	.45	•	•	.49			.10		•	•	.13	.46	.17			•	•	.05	.56	.04			
HALENANAHO 1006	A	3.43	.21	.15					.11	.21	.06	.29	•	•	.63		.07	.34		•	•	.25	.14	.18			•	•	.29	.39	.11			
HUKIPO 945		.19																											.17	.02				
ILILIULA INTAKE 1050	A	7.83	.71	.61	.02	•	•	.25	.24	.31		.13	•	•	1.19	.04		.45	.04	•	•	.53	1.27	.98	.02		•	•	.04	.82	.08	.06	.04	
INTAKE WAINIHA PC 1086	A	8.51	•	•	•	•	•	2.00	•	•	•	•	5.82	•	•	•	•	•	•	•	•	.09								•	•	•	.60	
KALIHIWAI RES 1131	A	6.26	.19	.28		•	•	.07	.09	.12	.05	.12	•	•	2.17	.02	.01	.13	.04	•	•	.32	.97	.83	.02					.81	.01	.01		
KANALOHULUHULU 1075		2.78	.07	.06	.03	.03			.03	.04			.90	.27			.03				.05		.13	.02	.03		.02	.01	.05	.98	.03			
KANEHA RESERVOIR 1092	A	6.79	.46	.50	.04	•	•	.11	.09	.22	.11	.12	•	•	2.80	.03	.04	.20		•	•	.25	.32	.32	.02		•	•	.03	1.10	.03			
KAPAA STABLES 1104	A	2.41	.19	.23	.05	•	•	.04	.05	.10		.06	•	•	.33			.08		•	•	.08	.25	.50			•	•	.15	.30				
KEALIA 1112	A	2.08	.24	.18	.10	•	•	.08	.06	.03	.01	.30	•	•	.39			.12		•	•	.07	.22	.04			•	•	.07	.17				
KEKAHA 944		.11			.03																								.08					
KILAUEA 1134	A	2.68	.07	.10		•	•	.04	.11	.15	.04	.18	•	•	1.31		.02	.01		•	•	.10	.36	.09						.09	.01			
KILAUEA FIELD 17 1135	A	4.49	.08	.19	.02	•	•	.20	.11	.06	.05	.15	•	•	1.56		.01	.12	.07	•	•	.31	.57	.27	.01		•	•	.01	.66	.03	.01		
KILAUEA POINT 1133		2.72	.29	.01	.04		.11	.17	.31		.33	.75	.04				.04	.05		.14	.05	.35							.04					
KOLO 1033		.41			.10								.06										.02						.03		.08	.12		
KOLOA 936	A	4.60	.40	.13					.04	.19	.05	.08	•	•	.68			.27		•	•	.27	.09	.20	.08		•	•	.70	1.28	.14			
KOLOA MAUKA 994	A	4.47	.31	.21		•	•	.09	.15	.33	.05	.23	•	•	.40		.06	.39		•	•	.41	.18	.43			•	•	.28	.64	.03		.28	
KOLOKO RES 1137	A	7.17	.12	.26	.01	•	•	.21	.22	.12	.02	.20	•	•	1.55		.02	.08	.09	•	•	.54	.69	.55			•	•	.01	2.45	.02	.01		
KUKUIULA 935	A	2.36	.20	.03					.05	.08	T	.02	•	•	.18			.12	.04	•	•	.21	T	.18			•	•	.85	.30	.10			
LIHUE VARIETY STA		6.31	.21	.42		•	.02	.02	.21	.09	.02	.26	.65	•	.20		.10	.18		•	.08	.65	.35	.14			•	•	.16	2.50	.05			
LIHUE 1020	A	5.65	.10	.14	.01	•	•	.02	.05	.18		.39	•	•	1.26	.01	.10	.10	.01	•	•	.27	.21	.46			•	•	.40	1.87	.07			
LIHUE WB AP 1020.1	R	3.15	.08	T				.08	.10	T	.18	1.00	.15				.06	.02			.03	.06	.22	.02				.02	1.13	T	T			
MAKAHUENA POINT 940.1		2.77	.15	.10					.04	.12		.07	.41		.03			.04			.02	.04	.27	.08				.19	1.27	.09	.04			
MAKAWELI 965	A	.57										.08								.03									.26	.01				
MANA 1026		.32			.06								.06											.07					.13					
MOHIHI UPR CROSS 1083	A	2.75	.05	.11		.05			.11	.05		.16	1.27	.16							.16		.11	.05					.42	.05				
HOLOAA 1145	A	4.70	.07	.18		•	•	.16	.17	.02		.23	•	•	.73		.01	.01		•	•	.07	.15	.03					2.79	.08				
MOUNT WAIALEALE 1047		18.60	.71	.75				.16	1.34	.87	.04	1.65	6.61	.27			.67	.12	.28	.08	.75	1.30	1.77	.59					.55		.08			
NIU RIDGE 1035		.51	.06		.11										.10								.05	.06					.10		.03			
N WAILUA DITCH 1051	A	9.79	.50	.86	.20	•	•	.20	.36	.50	.30	.35	•	•	2.20			.60		•	•	.60	1.30							.66	.20	.16		
PM WAINIHA 1115		8.09	.16	.13		T			.30	.34	.05	.02	2.73	2.45			.02	.09	.01		.21	.17	.88	.62	T					.91	T			
PRINCEVILLE RANCH 1117		3.69	.15	.31				.05	.16	.22		.19	.65	.13						.02	.20	.14	.46	.22						.79				
PUEHU RIDGE 1040		3.68	.02		.14										.15								.10		.06				.09	1.56	1.56			
PUHI 1013	A	4.54	.16	.37	.01	•	•	.02	.07	.24	.02	.21	•	•	1.13		.04	.17	.05	•	•	.20	.21	.34			•	•	.27	.81	.22			
RESERVOIR 6 1004	A	4.17	.24	.27					.25	.27		.19	•	•	.47		.05	.22		•	•	.37	.35	.35			•	•	.45	.66	.03			
WAHIAWA 930	A	2.08	.15	.05						.10	.01							.05	.03	•	•	.08		.06			•	•	.85	.65	.05			
WAHIAWA MOUNTAIN 990	A	5.75	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5.75	
WAIAHI LOWER 1054		5.55	.49	.51			.02	.04	.16	.16	.02	.26	.46	.05	.02			.35	.03	.08	.12	.55	.51	1.02	.02				.02	.58	.08			
WAIAHI UPPER 1052		6.25	.67	.60	.01	.02	.18	.24	.06	.25	.05	.14	.61	.22				.29	.03	.02	.04	.42	.63	.83	.01				.01	.78	.07	.03	.04	
WAIAWA 943		.15			.02																								.13					
WAILUA KAI 1065	A	3.12	.11	.54		•	•	.03	.15	.08		.05	•	•	.85			.11		•	•	.28	.16	.09			•	•	.18	.46	.03			
WAIMEA 947		.51																											.43		.08			
WEST LAWAI 931	A	1.72	.44	.01				T	.01	.04	.03	T	•	•	.07			.13	.03	•	•	.15	.02	.10	T		•	•	.41	.12	.16			
• • •																																	
ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	1.71											•	•	1.24								.27	.20										
BERETANIA PUMPING STA		.65	.01	T								.02	.04	.36	T								.20	.02										
CAMP 84 807	A	1.43	.06	.02	•	•	•	.01	•	•	•	•	•	•	.48									.84						•	•	.02		
CHURCH COLLEGE LAIE		3.50	.05											.20	.05	.50		1.50	.70	.20						.20			.10					
COCONUT ISLAND 840.1		1.85		.01							.08	.10	•	.97	.01	•	•	.06			.01		.43	.18										
EWA PLANTATION 741		.34											.01	.12	.01								.20											
HELEMANO INTAKE 881	A	4.33	•	.45	•	•	•	•	.36				•	•	2.51	•	.03	•	•	•		.37	•	•	.32	•		•	•	•	.29				
HOKULOA 725.2	A	2.36	•	•	•	•	•	.03	•	•	•	•	•	.95	•	•	•	•	•	•	•	•	1.18	•	•	•		•	•	.20	•	•	•	
HONOLULU OBSERV 702.2		.73											.03	.07	.01								.57	.01	.04									
HONOLULU WBFO 703	R	.96	T	T	T					T	T	T	.06	.16		T	.01		T		T	.05	.68					T						
HONOLULU SUBSTA 704		.60	.02									.01	.08	.25								.15	.09										
H S P A EXP STA 707		.83	.02	.01								.03	.08	.45	.02				.01				.19	.02										
KAHANA 883	A	13.32	•	•	•	•	•	1.34	•	•	•	•	•	•	7.26	•	•	•	•	•	•	1.18	•	•	•	•	•	•	3.28	•	•	.26	•	
KAHUKU 912	A	2.23	.03	.06		•	•	.07					•	•	1.23		.04				•	.20	.24	.32							.02	.02		
KAILUA FIRE STA 791.3		1.80		T	T	.01	.05	.02		T	T	.04	.05	.55	.01	.04	T	T	.02	.01	.30	.33	.34	T					.01		T	.02		
KALIHI RES SITE 777		5.50	.14	.08	.12						.20	.26	1.52	1.10	.02		.08	.02	.06		.04	.78	.88	.04	.02		.02				.02	.08	.02	
KANEOHE MAUKA 781		2.92		.24		.06					.03	.35	.40	.89			.13					.04	.53	.15	.06							.04		
KANEOHE RANCH 838	A	2.59	T	.15							.05	.27	•	•	.13	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.99	•	•	•	
KAPALAMA 773	A	2.34	.08	.06								.10				1.15				•	•	.80	.15											
KAWAIHAPAI 841	A	1.59											•	•	1.47								.12											
KAWAI IKI INTAKE 880.2	A	3.50	•	•	•	•	•	•	•	•	3.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
KEMOO CAMP 8 855	A	1.00	.03	.02									•	•	.82		.01			•	•	.01	.11											
KOOLAU RM 833		5.45	.04	.28	.27		.05			.18	.07		.52	1.71	.03	.04	.46	.04	.04	.04	.28	.03	.63	.07						.03				
LUALUALEI 804		.62											•	•	.27								.34	.01										
LUALUALEI WTR TUNNEL	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
LUNALILO HOME 724.2		.69		.01		•	•	.02			.01	.23	•	•	.22	.03	.03						.12	.01			•	•	.01					
MAKAHA KAI 796	A	.67											.07	.33									.27											
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		.63			.02		.14				.02		.18	.17	.03								.07											
MANOA 712		2.69	.08				T		.01	.02		.20	.09	.03	1.11			.02	.07			.02	.58	.47										
MANOA TUNNEL 2 716		7.34	.18	.02							.20	.24	2.16	2.14	.04		.04				.28	.82	1.16	.02					.04					
MOANALUA 770		1.36		.01	.01							•	.05	•	.43	.01							.52	.33										
NUUANU RES 4 783		2.00	.04	.02	.02	.02					.08	.44	.40	.20							.02	.26	.44			.02	.02	.02						
NUUANU RESERVOIR 5 775	A	3.23	.02	.10							.02	.26	•	•	1.40		.06					.04	.14	.65	.54										
OPAEULA 870	A	2.78	.20	.09		•	.01			.07	.03		•	1.80	.05		.06	.05	.01	•	.05		.28	.08										
PALOLO VALLEY 718		5.70	.10	.10		.02	.02		.02		.12	.34	1.28	1.36	.06	.02	.04				.16	.78	1.22	.02				.02	.02					
PAUOA FLATS 784		7.48	.32	.02						.08	.22	.28	1.30	1.38	.02	.04	.16	.02	.08		.18	1.00	2.22	.14						.02				
PORTLOCK ROAD 724.4		.36	.01	.02							.02		.08			.05	.08			.03				.02			.04							
PRI WAHIAWA 820.2	A	1.19	.03	.01	.01					T			•	•	.62		T		T				.28	.12					.12					
PUNALUU 884	A	3.23	.02	.12		•	•	.07			.16		•	•	2.07		.05	.04	.03	•	•	.27	.24	.15	.01									
PUNCHBOWL CRATER 709	A	1.42	.05	.02	.01	.02	.01					.04	.05	.54	.02				.02	.18		.01	.28	.12	.01	.04									
ST STEPHENS SEM 788		2.64		.10		.03					.03	.20	.08	.22	1.20	.03		T				.02	.60	.12	.01							T		
TANTALUS 2 780.5		3.81	.09	.21		.01					.07	.20	.05	1.25	.36	T	.04	.03	•	•	•	.39	.69	.41							.01			
UNIV OF HAWAII 713	A	1.10	T	T								.07	•	•	.89	T	.01		T	•	•	.05	.07	.01							T			
WAHIAWA DAM 863	A	2.20	.03	.01									•	•	.82		.08	.02	.02	•	•	.02	.37	.08		.01			.74					
WAIAHOLE 837	A	8.57	.06	.21		•	•	.06			.03	.30	•	•	4.76	.05	.16	.07		•	•	.22	1.35	.49			•	•	.69			.12		
WAIALAE KAHALA 715		.25	.03	.03	T							.07	.01	.01	.01	T							.02	T										
WAIALUA 847	A	.77									T		.07	.58	.05			T					.07											
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIANAE MAUKA 803	A	5.30	.23	•	•	.24	•	•	•	.01	•	•	.75	•	•	•	2.00	•	•	.62	•	•	•	.65	•	•	.44	•	•	•	•	.36	•	•	
WAIAWA 836	A	7.30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	7.30	
WAIKANE 885	A	9.18	•	•	•	•	•	.96	•	•	•	•	•	•	5.74	•	•	•	•	•	•	.92	•	•	•	•	•	•	•	•	•	•	.12	
WAIKIKI 717.2		.18	T	T								.01	.04	.11	T								.02					1.44					
WAILUPE RESV. 723.2	A	1.16	•	.13	•	•	•	•	•	•	.01	•	•	•	•	•	•	.86	•	•	•	•	•	•	.16	•	•	•	•	•	T			
WAIMANALO EXP FARM		1.08		T								.01	.03	.5	.01	.10	T						.39										
WAIMEA 892	A	2.70	.07	.12						.07	.07		•	•	1.50	.02	.08						.42	.08										
WAIPAHU 750	A	1.18				•	•	.01					•	•	.30					•	•	.27	.45	.13						.29				
WILHELMINA RISE 721		1.10	.10	.02								.02	.20	.43		.02	.04					.06	.14	.04										

See reference notes following Station Index.

DAILY PRECIPITATION

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF MOLOKAI																																	
KALAUPAPA 563	A	1.34	*	*	.03	*	*	.06	*	.02	.18	*	.10	.21	.55	*	*	*	*	.19	*	*	*	*	*	*	*	*	*	*	*	*	*
KAUNAKAKAI 536	A	.00																															
KEONELELE PENS 551	A	1.26																						1.26									
KUALAPUU 534	A	2.48							.08	.05	.02			*	.69	.09	.01						1.36				*	*	.18			
MAPULEHU 542		2.67	.06					.12	.33	.04	.02	.05		.25		.11	.11				.38	1.20										
HAUNALOA 511	A	.62											*	*	.30	.10							.22									
MOLOKAI AP 524		1.61							.10	.03			T	.16	.04	.03	T						1.25			T						
PUUOHOKU RANCH 542.1		1.73	.02	.04	.03				.13	.07	.13	.06	.45	.34									T									
WAIKOLU 540	A	6.73					.20								4.00			.02	T	T	.08	.25	1.93			.08		T		.03		
																						.40							.20			
* * * ISLAND OF LANAI																																	
KANEPUU 690	A	.25									T							T	*	*	*	*	*	*	.25					T		
KAUHALAPAU HARBOR 658	A	.00																															
LANAI CITY 672	A	1.33				.16		T		.03	.02	T	T	*	.24	.11	T						.73	.04								
LANAIHALE 684	A	2.43	*	*	*	.20	*	*	*	*	*	*	.10	*	*	*	*	*	*	.92	*	*	*	*	*	*	1.21	*	*	*	*	*	*
HAHANA 694	A	.29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.29
MALAUEA 676	A	.06			*	*	*	*	*	*	.06														T							
WAIAKEAKUA 685	A	.69	*	*	*	*	*	*	*	*	*	*	*	*	.54	.10	T		T			T	.03	.02	T	T				T		
* * * ISLAND OF HAUI																																	
AUWAI-252	A	.72	.10			.15					.22													.25									
HALEAKALA 8 E S 434	A	2.38	.51												.26								.27	1.02			.18	.14				
HALEAKALA RANCH 432	A	1.36	.25	*	*	*	*	*	*	*	*	*	*	*	.14	*	*	*	*	*	*	*	.15	.42	*	*	*	.40	*	*	*	*	*
HALEAKALA RS 338		.72	.05											.02	.03	T						.28	.19	T	T			.15				
HALEAKALA SUMMIT 338.4		1.05																						.20	.85								
HALIIHAILE 423	A	.93	.38						.03					*	.21								.27				.04						
HAHAKUAPOKO 485		2.01	.61	.01					.03	.40	.03			.09	.26	T	.01	.05			.13		.23	.01	T		.15	T					
HANA 395		2.58	.12	.09			T		.08	.18	.10			*	.52				.08	.02	*	.06	.79	.05		.15	.23	*	.05		.03	.03	
HANA AIRPORT 355		2.50	.03	.05		T			.11	.06	.06		T	.10	.81	T	.10	.06			.10	T	.76		.02	T	.23	T			.01		
HANAHULI 281		3.84	.03	.17					.10	.08		.32			.03		.50	.07	.01	.08	.07	.61	.32	.12	T		1.05	T			.28	T	
HOLUA CABIN 259.5	A	2.18	*	*	*	*	*	.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.66	*	*	*	*	*	*	*	.70
HONOKOHAU 480	A	5.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.10
HONOKOHUA 493	A	1.08	.03	.02					.05	.19	.03			*	.11	.07	.02	.04			*	.19	.26	.07									
HONOHANU GULCH 341	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
KAANAPALI AIRPORT		-					-			.08				.01	.02							T	.02	.06	T								
KAHOHA INTAKE 374	A	3.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.50
KAHULUI WB AP 398	R	.31	.05						T	.01			T	.I	T						T		.10									
KAILILI 436	A	2.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.48
KAILUA 446		3.52	.30						.05	.42					.63	.01		.02	.02		.24		1.07	.01	.19		.51	.05					
KAUAULA INTAKE 375	A	1.42	*	*	*	*	*	.18	*	*	*	*	*	*	.61	*	*	*	*	*	*	.10	*	*	*	*	*	*	.53	*	*	*	
KEAHUA 410		.36	.16						.01						.12								.04	.03									
KEANAE 346	A	5.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.10
KEAWAKAPU BEACH 260.2		.06													.03								.03									
KIHEI 311		.31													T									.28				.03				
KIPAHULU 258		2.67							.16	.30	.10	.08			.10								1.10	.08			.44				.23	.08	
KULA HEIGHTS 323.2		.90																					.04	.01				.85					
KULA SANATORIUM 267		.55							T						.03	.05		.05	T				.21	.06	.02		.07	.01				.03	.02
LAHAINA 361		.00																															
LAUNIUPOKO INTAKE 376	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00
LAUNIUPOKO VILLAGE 372	A	.00																															
LUPI UPPER 442	A	3.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.90
MAHINAHINA 466	A	1.33	.30						.05	.12	*				.27			.07					.47	.05									
NAKALELE -FLO 60-497	A	.92	*	*	*	.04	*	*	*	*	*	*	*	*	.19	*	*	*	*	*	*	.16	*	*	*	*	*	*	.47	*	*	*	.06
OLINOA 332	A	2.28	.11										*	*	.04	T	T			*	*	*	.17	.38	T		1.56						.02
OLOWALU 296		.02													.02																		
OLOWALU GULCH 377	A	.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.40
PAAKEA 350		4.73	.35						.22	.34	.04				.73	.05	.08	.09		.11	.43	.05	1.21	.22			.33	.35			.09	.04	
PAIA 406		.80	.35							.08	.02			.07	.18	T					.02		.13	T			T						
PANILEIHULU 259.2	A	1.97	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.97
PAUWELA 490	A	2.50	.62						.08	.42			*	*	.46	.02	.06	.08		*	*	.03	.63	.02	.06		*	*	.02				
POHAKEA BRIDGE 307.2	A	.10	*	*	*	*	*	*	*	*	*	*	*	*	.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
POLIPOLI SPRINGS 267.2	A	2.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.30	*	*	*	*	*	*	*	*	*
PUOHOKAMOA 2 343	A	7.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.60
PUU KUKUI MAKAI 472	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
PUUNENE 396		.32	.12							T					.10								T	.10									
SPRECKELSVILLE 400.2		.64	.27	T						.02				.01	.22								.12	T									
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	1.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.08
UKUMEHAME, 301	A	.00																															
ULUPALAKUA RANCH 250		1.21		.09												.06		.07					.04	.31			.64						
WAHIKULI 364	A	.04													.02									.02									
WAIEHU CAMP 484	A	1.50	.02	*	*	.16	*	*	.08	.04	*	*	.14	.13	.59	.07	*	*	*	*	*	.09	.11	*	*	*	.07	*	*	*	*	*	
WAIHEE VALLEY 482	A	2.16	.02	.06	*	*	*	*	.18	.12	*	*	*	.17	.40	.11	*	*	*	*	*	.16	.23	.21	*	*	.04	.46	*	*	*	*	*
WAIKAHOI 449	A	4.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.10
WAIKAHOI OAH 336	A	6.81	.77	.02	.02	*	*	.02	.10	.12	.01	.11	*	*	.65	.19	.08	.06	.01	*	*	.15	1.02	.88	.22	.03	.47	*	*	1.83	.03	T	.02
WAIKAPU 390	A	.33	.05	*	*	*	*	*	*	*	*	*	*	*	.20	*	*	*	*	*	*	*	*	.08	*	*	*	*	*	*	*	*	*
WAILUKU 392		.55	.02							.01			*	*	.52								T										
WAIOPAI RANCH 256	A	.82																					*	*	*	.82							
* * * ISLAND OF HAWAII																																	
AHUA UHI 75	A	.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.10
AWINI 182.1	A	2.91	.46	.09		*	*	.15	.19	.03	.12		*	*	.22			.03	.03	*	*	.65	*	*	*	*	*	*	.62		.32		
EAST HONOKANE 183.2	A	5.63	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.63
HAINA 214		1.56	.45	.01					.23						.07	.02		.04					.04	.12			.58						
HAKALAU 142		2.15	.06			.16	.01		.11		.04	.04		.10	.01		.02		.14	.06	.15		.79	.09			.19	.04			.14		
HALEHAUMAU 52	A	.94	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.94
HALEPIULA 117	A	.33	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.33
HALEPOHAKU 111	A	.03																					.03			T							
HAWAII VOLCNS NP HQ 54		1.99	.07	.01	.35	.02	.02	.01	.09	.01	.14	.02	T		T			T	.05	T	.11	.02	.65	.11	T	.07	.05	.10	.02	.03	.02	.02	
HAWI 168	A	1.35	.39	.01		*	*	.01	.09							.01			.01	*	*	.09	.15	.01			*	*	.55		.03		
HILO WB AIRPORT 87	R	3.19	.12	T	.01	.01		.19	.11	.11	T	.02	T		T	.02		.07	.10	.04	.05	.27	1.28	.28		.20	.01	.08		.01	.21	T	
HOLUALOA 70	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20
HUALALAI BEACH 68	A	.97			.33											.13													.25			.26
HONAUNAU 27		5.40	.34	.09	.74	.19	.04	.90		.40	.07	.10	.30	.10	.02							.02	.01	.94					.01	.86	.15	.12
HONOHINA 137		2.21	.40	.07		.02	.01		.20		.03			.05	.01	.02	.06		.06	.02	.15		.70	.09			.16	.11			.05		
HONOKANE 181.1	A	3.62	.35	.04					.20	.05	.09		*	*	.07			.05	.02				.67	.12			*	*	.25		1.71		
HONOMU HAUKA 138		4.35	.48	.01		.04		.04	.35		.16	.04	.01				.02		.32	.08	.37	.01	1.23	.07			.70	.20		.02	.17	.03	
HONUAULA 71	A	.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30
HUALALAI 72	A	.00																															
HUEHUE 92.1	A	1.63	*	*	.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.95
KAALA 1K1 12	A	5.11		.02	.40	.13	.07	T	.46		.02	.80	.50					.13	.02		.60	.03	.15	.09			.35	.27	1.04	T		.03	
KAAWALOA 29	A	2.99	T	.28	.12	*	*	1.01		.25	T		*	*	.89	.12					*	.20									.12	T	
KAINALIU 73.2		2.63	.14	.08	.04	.31	.36	.05		.13		.02	.62		.03	.04					.08	.11	.02		.02						.05	.53
KALAPANA NO 1 67.8		3.75	.01		.07	.01					.07	T		.01	T		.03	.02	.24	T	1.00	*	*	1.60	.01	.01	.02	.25	.22	.01	.08	.09	T
KAHAOA NO 2 5	A	1.88	*	*	*	.19	*	*	.21	.38	*	*	*	*	.46	*	*	*	*	.05	*	*	*	*	*	*	*	.55	*	*	.04	*	*
KAHUELA 192.2		.55	.11		.02				.02	.08													.15	.01			.16						
KAHUELA AIRPORT 191		.08	T		T				T														.08	T			T						
KAPAPALA RANCH 36	A	3.97	*	*	*	.74	*	*	*	*	.93	.56	*	*	*	*	*	*	*	*	.44	*	*	*	*	*	*	1.12	*	*	*	*	.18
KAPOHO LANDING 93.5	A	5.08	*	*	1.15	*	*	*	*	*	*	.52	*	*	*	*	*	*	.40	*	*	*	*	*	*	1.44	*	*	*	*	*	*	1.57

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		4.02							.60	.01	.40		.01						.01	.02	.30		1.62	.45			.30				.16	.14	
KAWAINUI LOWER 193	A	8.17	*	*	2.98	*	*	*	*	*	*	.17	*	*	*	*	*	*	.05	*	*	*	*	*	*	1.52	*	*	*	*	*	*	3.45
KEAAU 92		4.25	.49	.09	.03				.49		.12		.10			.01	.05			.06	.03	.34		1.47	.21	.02		.13	.24		.12	.13	.12	
KEALAKEKUA 26.2		3.07	T	.22	.02	.68	.46	.04		.53		.01	.57	T		.10						.18	.02		T				T			.22	.02
KEHENA 181.2	A	3.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.30
KILOLAKAA A & F 6	A	5.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.60
KIPA 89.2	A	5.36	.36	.03			.03		.91		.13	T						.02	.10	.03	.19		1.87	.33			.35	.93			.08			
KOHALA 179.1	A	1.34	.51	.01					.28				*	*	.01	.02		.02	.03	*	*	.07	.06	.03			*	.29		.01			
KOHALA MAULILI 176	A	1.70	.27	.02		*	*	.01	.15	.01	.01		*	*	.08	.02		.03	.02	*	*	.10	.41	.02			*	.34		.21			
KOHALA MISSION 175.1		1.52	.47	T				.06	.26	T	.02				.02	.02		.02	.03	.01	.12	T	.11	.03			.28				.07			
KOIAWE LOWER 196	A	5.23	*	*	2.06	*	*	*	*	*	*	.05	*	*	*	*	*	*	.04	*	*	*	*	*	*	1.08	*	*	*	*	*	*	2.00
KONA AIRPORT 68.3		.35	T				.01					.30																		.04			T	T
KONA VILLAGE 93.8		.00																																
KUKAIAU 222		1.52	.49	.02					.22		.01		T	T						T			.31	.32	.01		.14						
KUKUIHAELE MIC 199		1.76	.24						.08														.15	.05			1.15				.09		
KUKUIHAELE MILL 206	A	.65	.13	.03					.09				*	*	.05	.06							.02	.02			*	*	.25				
KULANI CAMP 79		1.81	.04		.22	.06	.10		.07		.10	.01							.01	.01	.10		.75	.10	.02	.06		.04	.01	.03	.08		
KULANI MAUKA 76	A	.16																T		.02			.12					.02					
KULANI SCHOOL SITE 78	A	1.81	*	*	*	*	.62	*	*	*	*	*	.20	*	*	*	*	*	*	.06	*	*	*	*	*	*	.93	*	*	*	*	*	*
LANIHAU 68.2		2.69					.89	.22					.34							.09		.18		.22				.17			.58		
MANUKA 2	A	.65	.06	.16	.04	*	*	.10			.03		*	*	.27												*	*	T					
MAUNA KEA BEACH 98		.02																											.02				
MAUNA LOA SLOPE OBS		.58																					.01						.57				
MIDDLE HOLUALOA 68.1	A	1.16	*	*	.35	*	*	*	*	*	*	*	*	*	*	.56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.25
MIDDLE PEN 147.1	A	.00																															
MOAULA 18	A	3.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.30
MOUNTAIN VIEW 91		4.23	.28	.04	.01	.02	.10		.42	.01	.25	.02					.04	.07	.25	.05	.61		1.14	.54		.07	.05	.08		.04	.02	.12	
NAALEHU 14	A	2.07			.11	*	*	.04	.02			.21	.32					T		*	.39	T	.15	T			*	*	.83	T				
NAPOOPOO 28	A	2.63	*	*	*	*	*	.96	*	*	*	*	*	*	1.46	*	*	*	*	*	*	.06	*	*	*	*	*	*	.15	*	*	*	*
NAULU FOREST 38.6		4.82	.07	.01	.24	T			T	T	.24	T	T				.02	.01	.02		.11	*	*	1.76			.02	2.26	.02	*	.04			
NIULII 179	A	1.85	.75	.02					.30										.02				.05	.06			*	*	.64		.01		
OOKALA 223		4.69	.70		T				.55	.05				T					.01		.01		.35	.27	.02		.11	2.60	.02				
OPIHIHALE 2 24.1		4.19	.09	.05	.03	.29	T		T	.26	.25	.34	.01	*	T				.61	*	*	.39	.38	.05	T		.02	.27	1.60	.01	.07	.07	.01
ORCHID LAND EST 91.5	A	5.06	*	*	1.43	*	*	*	*	*	*	.49	*	*	*	*	*	*	*	*	*	*	*	*	*	1.86	*	*	*	*	*	*	.67
PAAUHAU 217		1.45	.47	.05				.05	.08						.01	.06							.04			.69							
PAAUILO 221		1.42	.77	T					.09					.01						T			.17	.21	T		.17						
PAHALA 21		3.95			.44	.15	.07	.02				.37	.27			f04			.01		.96		.17	.04			.33	.66	.42				
PAHOA 65		5.65	.38	.29	.03	.01	.08		.09		.29	.14	.30				.12	.06	.08	.02	.24		2.10	.12		.03	.24	.40		.10	.30	.23	
PAKOO 37	A	6.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.20
PAPAIKOU 144.1		3.02	.13	.07	.13	.06	T	.01	.33		.02	.07					.02	.04	.08	.01	.14		1.02	.15			.27	.38		.02	.07			
PAPAIKOU MAUKA 140.1		4.23	.85	.07			T		.54		.08						.01	T	.10	.03	.07		1.24	.43			.45	.26		.02	.07	.01	
PEPEEKEO MAKAI 144		3.49	.22	.01	.10	.05	.02		.28	.01	.02	.12	.01	.01			.10	.06	.30	.07	.10		1.03	.14	.05		.30	.20	.01	.02	.25	.01	
PIIHONUA 89	A	9.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.20
POHAKULOA 107	A	.00																															
PUAKO 95.1	A	.00																															
PUU KIHE 120	A	.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.22
PUU LAAU 102.1	A	.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.22
PUU LEHUA 73	A	.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30
PUU MALI 113	A	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02
PUUOKUMAU 167	A	1.25	.19	.01		*	*	.01	.10	.01	.01		*	*	.12	.02		.01	.01	*	*	.01	.39	.03			*	*	.31		.02		
PUU OO 82		1.00	.01		.08	.11	.08		.07		.05		.02	T						T	.07		.48		.01					.01	T		.01
PUU WAAWAA 94.1	A	.55				*	.03																		.20				.05			.27	
SADDLE ROAD 1 84	A	5.16	*	*	.85	*	*	*	*	*	*	1.56	*	*	*	*	*	*	.10	*	*	*	*	*	*	2.10	*	*	*		*	*	.55
SOUTH POINT CORRAL 3	A	.48	*	*	*	.06	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*	.20	*		*	.17	*	*	*	*	*
UMIKOA 118		.48	.05	.03			*	.02	.03						.01					*	*	.01	.09		.24								
UPOLU POINT USCG 159.2		.38	T						.09		.02										.01		.21				.05						
WAIAKEA SCO 88.2		3.59	.41						.50		.17								.06	.03	.48		1.17	.15			.43				.09	.10	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.) Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Relative humidity averages-percent Standard of Time 150TH MERIDIAN 02	08	14	20	Number of days with precipitation Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
HILO, HAWAII, WB AIRPORT	18	1.1	6.3	19	E	25	83	70	69	83	5	10	9	0	1	0	25	62	4.8
HONOLULU, OAHU, WBFC	5	6.7	10.6	23	NE	07	75	69	54	68	10	3	1	1	0	0	15	65	4.7
KAHULUI, MAUI, WB AIRPORT	5	8.0	9.7	29	NE	07	81	77	59	78	4	2	2	0	0	0	8	84	3.5
LIHUE, KAUAI, WB AIRPORT	4	6.3	9.9	25	NE	10	83	81	68	80	4	8	4	0	2	0	18	59	5.9

See reference notes following Station Index.

DAILY TEMPERATURES

HAWAII
OCTOBER 1969

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	71	71	74	75	72	72	73	78	71	73	65	68	72	73	70	72	73	74	69	73	74	69	68	72	75	72	68	72	70	72	71	71.7
	MIN	54	50	46	59	43	55	59	58	48	52	59	54	49	48	49	54	54	48	51	55	57	56	47	44	45	48	59	53	51	46	43	51.4
KILAUEA POINT 1133	MAX	81	82	85	85	84	84	82	82	83	84	76	82	83	82	82	81	84	81	82	81	81	81	84	83	82	86	86	81	81	84	82	82.5
	MIN	70	72	70	72	71	74	74	73	70	69	71	71	71	72	71	71	71	70	73	71	73	71	70	72	71	72	70	73	71	71	70	71.3
LIHUE WB AP 1020.1	MAX	83	83	82	83	83	85	84	85	85	85	82	82	82	84	82	83	85	84	83	83	83	82	82	82	82	84	83	82	82	82	82	83.0
	MIN	73	70	63	70	68	71	73	74	71	70	70	70	67	72	74	75	76	76	73	74	73	72	68	67	70	69	73	71	73	70	67	71.1
MAKAHUENA POINT 940.1	MAX	88	85	85	85	86	87	86	88	88	88	83	85	84	84	85	84	86	84	85	85	85	85	85	84	85	88	89	87	88	84	86	85.7
	MIN	71	71	70	70	70	70	71	73	70	70	69	71	70	71	72	73	75	76	72	76	70	70	70	72	76	70	77	72	72	70	68	71.5
MANA 1026	MAX	86	86	88	87	88	86	90	87	86	89	84	90	86	87	88	84	87	87	87	87	89	85	86	86	86	87	87	85	85	88	89	86.9
	MIN	65	65	67	65	66	68	69	67	66	67	64	68	67	67	65	67	66	65	65	64	64	67	67	65	65	65	65	67	67	66	65	66.0
NIU RIDGE 1035	MAX	83	84	80	83	86	85	82	83	82	83	83	82	81	80	82	80	80	82	83	84	85	84	83	83	84	83	85	83	82	83	84	82.8
	MIN	63	65	62	61	63	65	61	61	60	61	60	60	60	60	61	60	60	60	61	62	62	65	62	63	62	61	63	61	60	62	62	61.6
WAIAHI LOWER 1054	MAX	78	79	80	79	79	79	79	79	81	80	79	79	78	80	80	78	79	78	79	79	78	78	80	79	79	80	79	80	80	81	83	79.3
	MIN	65	64	60	59	58	60	65	68	63	63	60	64	60	64	66	67	66	65	66	65	67	68	60	59	60	60	66	65	66	64	60	63.3
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	85	83	85	86	84	86	86	85	85	86	82	84	85	85	85	85	85	85	85	84	83	86	84	84	87	85	85	86	86	87	82	84.9
	MIN	68	65	64	64	68	62	68	67	68	67	69	68	65	66	69	66	68	67	67	65	68	67	64	64	66	66	66	67	66	66	64	66.3
HONOLULU WBFC 703	MAX	88	87	86	85	87	90	89	90	90	89	86	87	87	86	89	89	90	90	89	89	87	89	87	89	88	87	87	90	89	87	86	88.0
	MIN	74	71	69	70	69	69	77	76	73	74	73	72	70	75	75	74	76	75	75	73	74	74	71	70	72	73	73	76	76	72	70	72.9
HONOLULU SUBSTA 704	MAX	81	83	80	81	83	82	81	82	84	84	79	80	81	81	81	83	83	83	83	83	82	82	85	84	86	83	83	85	83	82	80	82.4
	MIN	72	72	70	71	70	71	75	74	74	72	72	70	72	73	73	74	75	75	73	73	71	73	70	71	72	71	72	73	74	72	71	72.3
KAHUKU 912	MAX	82	83	83			84	85	84	84	86			85	81	83	82	83			83	82	82	83	83			85	85	84	84	84	83.5
	MIN	73	65	70			64	72	74	69	67			67	71	68	70	74			71	70	71	65	65			65	68	74	74	74	69.6
KANEOHE MAUKA 781	MAX	81	82	82	83	82	82	84	82	81	84	83	87	78	78	81	81	80	81	82	81	80	80	82	82	82	83	83	84	85	81	82	83	81.9
	MIN	71	68	67	67	67	67	72	71	72	70	69	72	68	70	69	70	69	73	72	71	69	69	68	67	68	68	69	69	73	69	69	69.5
LUALUALEI 804	MAX	85	88	85	87	84	88	86	89	87	86	82	84	85	84	86	85	87			86	86	85	86	86	86	87	86	85	88	88	86	86.0
	MIN	74	70	67	68	68	65	71	73	72	69	70	72	68	68	70	70	75			70	71	73	66	66	67	67	67	69	70	68	65	69.3
MAKAPUU POINT 724	MAX	79	87	80	81	81	80	80	80	79	88	82	78	78	78	87	80	88	88	88	87	80	79	84	81	84	85	86	83	87	79	87	82.7
	MIN	72	74	69	71	70	71	69	68	72	75	69	68	69	71	74	68	74	74	74	74	69	72	74	67	73	74	74	68	74	72	74	71.5
OPAEULA 870	MAX	79	85	84	84	86	85	87	83	83	85	78	78	78	80	83	81	83	82	80	81	83	81	83	86	83	87	83	87	84	83	83	82.9
	MIN	66	63	61	62	61	62	61	67	66	64	65	64	62	62	65	64	65	68	66	64	64	66	61	61	62	61	65	65	64	63	61	63.6
PRI WAHIAWA 820.2	MAX	83	83	86	82	83	85	86	85	85	89	80	80	86	82	82	82	84	84	84	85	85	82	85	87	85	86	87	87	86	84	86	84.4
	MIN	66	64	61	60	62	59	62	63	65	63	64	67	64	64	65	63	65	66	63	64	66	65	62	61	60	61	61	65	64	63	60	63.2
WAIALUA 847	MAX	83	84	84	84	84	83	88	86	86	87	86	80	82	85	83	84	85	85	85	85	84	85	88	85	84	87	86	88	88	88	84	85.0
	MIN	65	62	63	63	64	63	62	63	63	63	64	70	69	62	65	63	65	65	64	66	65	62	61	62	62	63	65	64	65	63	61	63.8
WAIKIKI 717.2	MAX	86	85	87	86	88	86	87	86	85	88	80	83	84	85	85	86	86	86	85	85	85	86	87	89	88	90	88	89	89	86	88	86.3
	MIN	74	68	65	66	66	65	71	69	69	69	70	70	66	68	72	69	72	72	74	70	72	73	66	65	68	68	69	68	72	67	66	69.0
WAIMANALO EXP FARM	MAX	84	84	85	85	86,	85	85	85	84	85	86	80	81	83	83	83	84	85	84	84	84	82	83	84	86	87	88	86	84	85	84	84.3
	MIN	74	68	66	66	66	67	68	74	73	69	68	69	70	70	72	72	74	74	72	73	70	69	67	66	66	67	68	70	73	70	68	69.6
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	81	82	81	82	82	81	84	83	81	84	81	80	78	83	81	82	81	83	81	82	80	81	81	80	80	82	85	87	83	83	82	81.8
	MIN	70	71	71	70	65	65	72	70	72	71	71	71	70	71	70	71	71	68	68	73	71	71	70	71	70	67	69	69	71	71	70	70.0
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	77	78	78			78	79	77	78	79	75		79	78	78	79	79	79		80	80	78	78	77	81		80	78	79	79	78	78.4
	MIN	64	63	64			63	64	66	65	65	66		63	64	64	64	63	63		65	66	65	63	64	66		65	65	63	65	64	64.3
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	62	64	62	62	60	65	65	68	73	66	59	63	63	64	68	67	69	66	62	65	63	64	61	65	66	66	64	65	63	61	64	64.4
	MIN	40	42	42	41	42	44	52	53	48	42	42	48	42	45	50	47	44	40	40	46	43	42	45	46	46	44	45	48	43	39	42	44.3
HALEAKALA SUMMIT 338.4	MAX	55	55	56			63	61	62	61	63			58	60	57	57	58			62	53	50	54	56			59	57	54	53	57	57.4
	MIN	37	37	41			42	45	47	50	45			40	49	45	45	46			43	41	42	42	43			39	42	39	39	40	42.6
HANA AIRPORT 355	MAX	82	83	82	82	82	82	84	84	84	84	84	83	82	83	83	83	84	83	84	83	83	83	84	83	83	82	85	84	83	84	84	83.2
	MIN	68	67	65	65	64	65	70	70	70	69	67	70	68	68	68	70	68	67	69	68	70	67	66	67	70	68	71	69	69	68	67	68.0
KAANAPALI AIRPORT	MAX	84	84	82	83		85	86	85	87	84	85	84	84	84	83	85	85	86	84	85	83	85	84	84	86	85	86	86	86	88	87	84	84.8
	MIN	70	64	66	67		65	71	71	68	68	69	71	67	70	66	70	69	67	68	67	71	67	66	65	66	66	67	66	68	65	66	67.6
KAHULUI WB AP 398	MAX	84	84	84	85	85	86	87	87	90	87	86	85	84	85	87	89	88	87	87	85	88	86	85	85	85	89	90	89	88	90	87	86.6
	MIN	70	62	64	62	62	60	72	72	66	65	69	72	71	67	65	66	65	62	65	62	70	70	64	62	68	66	64	63	63	62	62	65.6
KAILUA 446	MAX	79	80	80	81	81	80	81	80	78	80	80	80	80	79	79	80	80	80	81	79	77	77	80	79	79	79	80	79	80	80	80	79.6
	MIN	66	64	63	62	61	62	65	68	66	65	65	68	65	63	63	63	63	58	66	68	66	67	64	63	65	65	63	63	69	64	63	64.4
KEAWAKAPU BEACH 260.2	MAX	92	89	87	86	86	89	89	90	89	88	89	84	87	83	85	87	89	88	89	87	84	89	89	88	88	89	90	87	87	87	87	87.7
	MIN	63	62	63	63	63	62	64	65	67	65	63	65	65	62	62	63	63	62	64	63	70	64	64	63	66	66	66	64	64	65	64	64.0
KULA SANATORIUM 267	MAX	72	73	72	72	72	72	75	74	75	74	73	74	74	72	72	72	74	75	72	73	73	72	71	73	75	74	76	74	75	73	74	73.3
	MIN	56	56	57	58	56	57	56	57	59	58	55	56	58	57	56	56	57	54	55	56	57	57	58	57	58	58	59	57	58	57	56	56.8

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	86	86	87	88	88	87	85	86	87	87	86	88	88	87	88	85	85	86	87	86	86	87	86	84	85	85	86	85	84	85	84	86.1
	MIN	68	67	66	67	66	66	69	71	69	69	68	68	69	68	68	68	68	68	69	67	69	68	67	67	68	68	69	67	68	67	66	67.8
WAILUKU 392	MAX	81	80	80	80		80	81	81	81	82			81	80	79	80	81			81	79	81	80	80			84	83	82	81	82	80.8
	MIN	71	67	67	68		67	69	72	71	71			70	71	72	71	72			71	71	72	70	70			68	70	73	67	68	70.0
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	81	82	82	83	82	83	83	83	83	84	84	83	83	83	83	83	83	82	82	82	83	82	81	82	81	83	85	83	81	83	83	82.6
	MIN	65	65	65	64	66	65	68	70	65	66	65	67	67	65	65	66	67	66	66	65	68	67	66	66	67	68	66	67	67	65	64	66.1
HAWAII VOLCNS NP HQ 54	MAX	65	71	73	71	71	71	73	71	71	71	71	70	72	70	71	70	72	70	72	71	73	72	74	72	75	73	77	74	73	70	72	71.7
	MIN	56	47	56	52	50	50	56	55	54	53	53	55	56	53	54	53	55	52	55	53	57	56	55	55	59	59	56	55	55	56	52	54.3
HILO WB AIRPORT 87	MAX	82	82	82	81	81	82	82	81	83	82	82	83	83	82	83	83	83	83	83	85	84	83	81	84	85	85	84	84	83	83	84	82.8
	MIN	66	64	67	65	65	66	70	66	66	66	64	64	65	66	66	66	67	64	65	64	68	69	66	66	70	69	67	68	67	65	64	66.2
KAINALIU 73.2	MAX	75	78	76	78	77	78	80	80	81	79	77	79	78	79	79	80	81	81	79	79	80	81	81	81	80	82	83	78	82	80	81	79.5
	MIN	62	61	61	62	62	62	63	65	65	65	61	62	63	63	62	61	63	62	61	61	63	66	62	63	65	65	64	63	64	63	61	62.8
KAMUELA 192.2	MAX	70	72	80	78	80	76	78	73	74	78	78	72	78	74	75	74	78	78	75	73	77	78	75	78	78	80	80	77	76	74	81	76.4
	MIN	58	56	49	50	49	52	60	55	55	56	58	60	56	53	56	56	58	56	60	51	54	60	52	55	56	58	55	58	60	48	48	55.1
KAMUELA AIRPORT 191	MAX	72	73	76	78	78	76	80	77	72	76	78	76	77	76	76	75	77	76	76	76	77	76	75	79	78	80	79	78	76	76	79	76.6
	MIN	53	52	55	49	49	54	50	50	50	55	53	55	54	55	51	50	58	55	54	54	48	53	51	45	47	56	52	56	50	50	47	52.0
KEAAU 92	MAX	81	81	82	84	84	84	84	82	80	85	83	83	83	85	85	85	85	85	85	85	85	84	82	83	88	88	88	83	84	83	83	83.9
	MIN	66	62	62	65	65	65	66	66	65	66	65	65	65	65	67	66	66	65	65	65	67	66	66	66	67	67	67	67	67	64	62	65.4
KEALAKEKUA 26.2	MAX	75	79	77	78	76	77	80	79	79	78	74	79	76	78	79	80	80	80	80	81	80	80	80	81	81	81	83	79	82	79	80	79.1
	MIN	63	61	62	62	62	62	64	64	64	66	61		66	63	63	62	64	62	62	62	62	65	62	64	64	64	65	65	64	63	63	63.2
KOHALA MISSION 175.1	MAX	80	79	81	82	81	81	81	80	81	81	82	81	81	81	81	82	81	81	81	80	82	82	81	82	82	81	84	81	81	81	61	81.2
	MIN	66	65	65	65	65	65	69	70	65	66	66	69	69	68	69	69	69	67	68	66	66	68	65	66	67	68	67	68	69	65	65	66.9
KONA AIRPORT 68.3	MAX	85	86	86	84	84	84	83	84	84	84	82	83	84	83	83	84	84	84	85	84	84	85	84	85	84	84	85	84	84	84	84	84.1
	MIN	64	65	62	66	65	65	65	65	65	65	69	64	64	67	69	67	67	67	63	63	63	63	66	65	65	64	66	70	69	70	70	65.7
KULANI CAMP 79	MAX	62	63	62	64	67	62	63	61	61	63	65	65	61	65	65	65	67	67	65	65	68	68	68	66	70	71	69	68	65	65	67	65.3
	MIN	48	44	47	45	45	45	53	45	45	43	47	43	59	47	50	41	48	43	40	42	58	51	48	50	43	43	47	46	49	45	49	46.7
MAUNA KEA BEACH 98	MAX	93	88	86	87	86	87	87	94	95	87	86	91	85	87	88	88	85	88	86	85	84	85	85	87	86	85	86	85	85	87	86	87.1
	MIN	72	69	70	70	70	71	73	77	72	72	70	72	71	70	72	69	73	70	70	69	72	71	70	69	72	73	70	69	72	69	68	70.9
MAUNA LOA SLOPE 08S	MAX	55	54	55	56	56	57	63	62	56	55	54	57	60	59	57	60	58	58	58	55	50	52	54	54	53	51	52	50	51	54	57	55.6
	MIN	43	34	36	36	41	44	44	45	42	37	36	38	43	43	39	39	38	39	38	37	38	34	35	38	36	35	36	36	34	35	35	38.2
MOUNTAIN VIEW 91	MAX	76	77	79	81	62	80	79	80	73	79	79	81	81	81	81	80	78	77	81	78	81	79	78	79	81	81	81	81	78	80	80	79.4
	MIN	58	57	57	60	58	58	58	61	59	62	57	57	61	60	60	60	62	56	61	57	61	62	59	59	60	65	63	61	61	58	57	59.5
NAALEHU 14	MAX	82	83	83	83	83	83	83	83	82	82	82	83	83	81	83	81	83	83	82	82	82	82	81	83	83	83	85	80	81	81	81	82.3
	MIN	64	65	66	66	66	66	67	69	68	68	68	65	65	64	66	69	69	69	67	67	69	69	66	67	67	67	63	70	69	68	66	66.9
OOKALA 223	MAX	81	80	80	82	81	82	82	81	81	82	83	81	82	82	83	82	81	82	83	83	81	80	80	81	84	82	82	80	80	82	81	81.5
	MIN	66	68	67	67	66	67	67	68	69	68	68	70	70	69	69	70	70	70	68	69	68	69	67	68	70	68	70	68	71	70	66	68.4
OPIHIHALE 2 24.1	MAX	75	74	77	75	75	78	80	78	78	77	74	75	74	77	77	80	80	78	79	79	79	77	79	79	82	81	79	78	76	80	75	77.6
	MIN	61	61	61	61	59	60	62	61	62	63	62	62	60	60	59	59	61	60	60	60	62	60	60	61	62	63	64	65	63	61	58	61.1
PAHALA 21	MAX	81	84	82	81	80	80	83	82	83	80	80	83	81	80	82	81	82	80	82	80	81	81	82	83	85	84	80	79	79	80	81	81.4
	MIN	61	62	63	63	63	63	63	63	63	64	60	64	61	62	63	64	63	62	66	60	65	64	63	63	64	64	64	65	64	62	60	62.9
UPOLU POINT USCG 159.2	MAX	83	83	83	83	83	83	84	82	80	85	84	83	83	83	83	84	83	83	82	82	83	83	83	83	83	84	82	83	83	83	82	82.9
	MIN	71	69	65	70	68	69	71	75	69	69	72	74	74	69	71	73	71	70	68	70	71	73	69	69	72	75	71	70	70	70	69	70.5

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.21	.15	.30	.23	.30	.26	.22	.22	.30	.23	.34	.27	.28	.35	.34	.19	.33	.34	.36	.27	.23	.33	.26	.21	.24	.24	.21	.26	.25	.25	.19	8.16
	WIND	195	170	98	89	84	85	120	172	131	72	100	252	108	118	149	163	200	211	183	166	161	188	109	71	90	75	73	52	114	122	68	3989
	MAX	84	85	89	87	89	90	89	87	91	89	88	82	86	85	86	85	89	89	87	86	86	86	87	89	87	88	89	88	87	87	90	87.3
	MIN	68	68	64	64	64	64	68	70	68	68	68	67	65	65	68	68	68	69	69	69	69	70	64	64	64	65	65	69	70	68	63	66.9
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.15	.30	-	.21	.20	.22	.29	.29	.25	.22	.13	*	.28	.21	.15	.24	.30	.21	.20	.22	.15	.08	.14	.30	.15	.04	.18	.22	.21	.22	6.2?8
	WIND	36	26	19	18	16	20	22	31	25	24	23	14	15	17	23	17	22	31	23	19	20	14	18	15	15	19	14	13	24	20	20	623
	MAX	91	91	93	-	91	93	93	89	90	94	92	85	87	90	91	86	89	91	88	89	90	88	86	91	92	91	91	94	93	91	91	90.4
	MIN	66	67	67	-	67	66	65	67	67	69	68	69	74	66	71	66	66	66	67	67	68	68	65	65	66	69	69	69	68	68	66	67.4

See Reference Notes Following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI													
ALEXANDER RESV. 983		0140	00	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1111	A	0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1		0465	00	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053		1170	00	KAWAIHAU	1	22 05	159 28	1218				5	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690				5	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A	2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A	3104	01	KAWAIMOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1		4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103			8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1		5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M+M 1001		6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500				5	U S GEO SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148				5	U. S. GEO. SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055		6893	00	KIHUE	2	22 04	159 26	650				5	LIHUE PLTN CO LTD
PH WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	00	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 25	157 51	320				C	DOM MITCHELL
AIEA FIELD 625 761	A	0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9A	7A		C	EWA PLANTATION CO
HALAWA SHAFT 77192		0964	00	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220				C	H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A	C	U S COAST & GEODETIC
*HONOLULU WBEC 703	R	1919	02	HONOLULU	2	21 20	157 55	7				C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12				C	ESSA-WEATHER BUREAU
H S P A EXP STA 707		2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6		2269	00	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800				C	WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910					BOARD OF WTR SUPPLY
KAMEHAME 724.7		3056	01	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	00	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3		3825	01	KOOLAUPOKO	1	21 40	158 00	1030				C	HAWAII NATIONAL GUARD
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 08	1500				C	U S NAVY
LULUKU		5655	00	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LON
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A	5766	04	WAIANAE	4	21 28	158 13	25		7A		C	CAPITAL INVEST CO
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650					BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	00	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	00	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048					BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410					BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995					BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640					BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1		7933	00	EWA	3	21 25	157 58	240				C	JAMES MUMENO
PORTLOCK ROAD 724.4		8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	00	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788		8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780		8730	00	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798	A	9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 803	A	9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836	A	9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE RESV. 723.2	A	9495	02	HONOLULU	2	21 18	157 45	170					BOARD OF WTR SUPPLY
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892	A	9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721		9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6		3046	00	MOLOKAI	1	21 04	156 52	60				C	W.J. CARSTEN
KAUNAKAKAI 536	A	3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	00	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560					MOLOKAI RANCH, LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL & LIBBY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF MOLOKAI													
PUUOHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI													
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370				C	ST. DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 53	156 55	1430					DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI													
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060					ULUPALAKUA RANCH
FIELD 46 474		0541	00	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	A	0790	00	LAHAINA	4	20 57	156 36	2980				5	MAUI PINEAPPLE CO.
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1008	02	MAKAWAO	2	20 43	156 15	9960	8A	8A		C	U OF MICH MT HKALA OBSY
HALEHAKU 492.2		1016	00	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355		1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281		1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870					MAUI PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	A	1914	00	LAHAINA	4	21 01	156 38	125				5	MAUI PINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	00	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	00	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 38	2000				C	PIONEER MILL CO LTD
KAHULUI WB AP 398	R	2572	03	WAILUKU	3	20 54	156 26	48				C J	U S WEATHER BUREAU
KAILIILI 436	A	2634	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3577	00	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410		3914	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A	4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		5	A. L. CORELL
KIHEI 311		4486	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258		4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	A	4887	00	LAHAINA	4	20 54	156 35	5788				5	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280					PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475		6521	00	LAHAINA	4	20 59	156 37	1290				5	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340					MAUI PINEAPPLE COMPANY
OLINDA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127					MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A	7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
PAUWELA 490	A	7857	01	MAKAWAO	1	20 55	156 19	485		7A			MASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150					STATE DIV OF FORESTRY
PUOHOKAMOA 2 543	A	8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352		8553	00	HANA	1	20 46	156 03	2160				5	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	3	20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A	9331	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320				C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348		9464	01	HANA	1	20 48	156 09	2630				5	EAST MAUI IRRIGATION CO
WAILUKU 392		9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A	9769	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII													
AMUA UMI 75	A	0046	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A	0191	01	N KOHALA	1	20 10	155 43	1870					KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A	0451	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALENAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87	R	1492	02	S HILO	2	19 43	155 04	27				C J	U S WEATHER BUREAU
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A	1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONONU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A	2241	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4		2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA MD 1 67.8		2894	02	S HILO	2	19 20	155 02	10					HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191		3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3366	02	PUNA	2	19 30	154 52	290					BOARD OF WATER SUPPLY
KAUMANA 88.1		3516	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEANAKOLU CAMP 124.2		4098	01	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV. OF FORESTRY
KEHENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A	4628	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA AIRPORT 68.3		4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8		4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300				C	U S WEATHER BUREAU
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	00	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1		5460	00	PUNA	2	19 29	154 54	650				C	STATE DIV OF PARKS
MANUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL

STATION INDEX

(CONTINUED)

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII:												
MAUNA LOA SLOPE OBS	6198	05	MAHUKUA	5	19 32	155 35	11146					MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380					KAHUA RANCH
MOAULA 78	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	0552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 26	A 6697	04	S KONA	4	19 28	155 59	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	A 6731	02	PUNA	2	19 19	155 08	1400					HAWAII VOLCANOES NAT PK
NIULII .79	8806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	A 7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID AND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445					BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULIO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	8A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO, INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			HAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			HAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIMAUNA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511			C		STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIHF 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 30	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4080					GREENWELL RANCH
PUU WALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUHAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82		8550	02	S HILO	2	19 44	155 23	8340		6A		DON WINTERS
RUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A	C		DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	400					HUTCHINSON SUGAR CO
S POINT TRACKING STA	8679	00	KAU	3	18 57	155 41	305			C		FEDERAL ELECTRIC CORP
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 139.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONULA 178.6	9350	00	N KOHALA	1	20 08	155 47	3830		7A	C		KAHUA RANCH

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and sled movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES. Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- – No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

- + And also on an earlier date or dates.

- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

- • Amount included in following measurement, time distribution unknown.

- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table; and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

- B Adjusted to a full month.

- J "Supplemental Data" table.

- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

- R Amounts from recording gage.

- T Trace, an amount too small to measure.

- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.

- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

- MO Gage read once monthly; usually on the last day.

- OC Gage readings at periods varying from a few weeks to several months.

- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

- SS Observation time is near sunset.

- VAR Observation time is variable.

- WI Gage read weekly or irregularly only.

- WM Gage read weekly and last day of month.

- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price. 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE -02/04/70-890

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
NOVEMBER 1969
Volume 65 No. 11

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S.I., TECH. & AGR. DIV.

CLIMATOLOGICAL DATA

Station		Temperature												Precipitation								
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														6.46	1.70	1.73	13	.0	0				
KANALOHULUHULU 1075		68.0	51.6	59.8		73	4+	37	27		0	0	0	0	5.59		1.37	13	.0	0		10	3	2
KAPAA STABLES 1104	A														9.36		3.67	13	.0	0				
KILAUEA FIELD 17 1135	A														10.72	2.44	2.33	20	.0	0				
KILAUEA POINT 1133		80.8	70.3	75.6		88	16	66	27+		0	0	0	0	7.93		2.70	12	.0	0		14	5	2
KOLOA 936	A														8.19	2.12			.0	0				
LIHUE WB AP 1020.1	R	80.7	70.5	75.6	1.1	83	15+	64	28		0	0	0	0	7.45	2.92	3.82	12	.0	0		8	5	1
MANA 1026		83.7	65.3	74.5	- .2	89	7	58	28		0	0	0	0	4.62	2.57	1.41	13	.0	0		6	4	3
N WAILUA DITCH 1051	A														17.00		2.90	13	.0	0				
PH WAINIHA 1115															9.07	- .90	2.60	20	.0	0		14	5	4
PUEHU RIDGE 1040															6.39		2.80	13	.0	0		9	4	1
WAHIAWA 930	A														4.74	1.65			.0	0				
WAIAHI LOWER 1054		77.9	62.7	70.3		82	2	54	28		0	0	0	0	12.25		3.16	13	.0	0		18	8	2
WAIMEA 947															3.20	1.46	1.73	13	.0	0		6	2	1
ISLAND				71.2											8.07				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															6.92		3.46	13	.0	0		3	2	2
HONOLULU WBFC 703	R	86.0	71.4	78.7	2.8	90	3	66	28+		1	0	0	0	5.77	3.61	2.43	14	.0	0		4	3	3
KAHUKU 912	A	M	M	M		85	3	63	3		0	0	0	0	2.30	- 1.43	.95	13	.0	0			1	0
KANEOHE MAUKA 781		80.6	67.9	74.3	.1	90	25	60	24		1	0	0	0	4.03	- 1.25	1.85	15	.0	0		7	1	1
KOOLAU DAM 833															*	6.30	3.78	6	.0	0			9	5
LUALUALEI 804		84.1	68.4	76.3		88	4+	63	28		0	0	0	0	4.37				.0	0				
MAKAPUU POINT 724		79.3	69.5	74.4		87	10	64	2		0	0	0	0	2.67	.38	1.32	15	.0	0		3	2	1
NUUANU RES 4 783															5.58	- 3.73	2.38	14	.0	0		9	3	2
OPAEULA 870	A	80.7	63.8	72.3	2.1	87	3	58	30		0	0	0	0	4.50	- .51	1.17	13	.0	0				1
PALOLO VALLEY 718															9.18	- 1.93	3.68	14	.0	0		9	4	4
PRI WAHIAWA 820.2	A	82.6	62.5M	72.6M		90	2	58	27+		1	0	0	0	5.36				.0					
PUNALUU 884	A														2.46		.84	13	.0	0			1	0
WAHIAWA DAM 863	A														4.90				.0	0				
WAIAHOLE 837	A														4.91	- 6.92			.0	0				
WAIALUA 847	A	82.9	64.1	73.5	.1	88	17+	59	28+		0	0	0	0	3.48	1.13	1.49	13	.0	0		4	2	2
WAIKIKI 717.2		84.5M	68.1M	76.3M		89	3	61	28+		0	0	0	0	3.90		3.37	15	.0	0		5	1	1
WAIMANALO EXP FARM		82.3	68.6	75.5		86	2	62	28		0	0	0	0	2.44		1.30	15	.0	0		4	2	1
WAIPAHU 750	A														5.31	2.75	3.00	15	.0	0		4	2	2
ISLAND				74.9											4.59				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														1.36	- 1.74	.67	6	.0				1	0
MAPULEHU 542															*				.0	0				0
MAUNALOA 511	A														.62	- 2.13	.34	15	.0	0			0	0
MOLOKAI AP 524		80.8	68.5	74.7		84	16+	63	2		0	0	0	0	.78		.37	6	.0	0		3	0	0
ISLAND				74.7											.92				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	77.7M	63.3M	70.5M	1.9	80	23+	60	23		0	0	0	0	.52	- 2.34	.22	15	.0	0		3	0	0
ISLAND				70.5											.52				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														5.08	- 1.16	1.50	6	.0	0		7	4	1
HALEAKALA RS 338		63.1	44.5	53.8		71	5+	38	9		0	0	0	0	2.88		2.00	7	.0	0		5	1	1
HANA AIRPORT 355		81.7	67.9	74.8		85	4+	62	27		0	0	0	0	4.17		.88	6	.0	0		12	2	0
HONOKOHUA 493	A														1.28	- 2.04	.66	6	.0	0			1	0
KAANAPALI AIRPORT		82.5M	66.7M	74.6M		85	6+	62	29+		0	0	0	0	.43		.31	6	.0	0		1	0	0
KAHULUI WB AP 398	R	84.4	65.2	74.8	- .2	89	2	59	28+		0	0	0	0	.50	- 1.02	.26	6	.0	0		2	0	0
KAILUA 446		77.5	64.4	71.0	.0	85	16	60	28+		0	0	0	0	7.05	- 3.00	2.17	29	.0	0		8	5	2
KEANAE 346	A														11.10	- 7.72			.0	0				
KIPAHULU 258															4.19	- 4.91	.80	22	.0	0		11	4	0
KULA SANATORIUM 267		72.8	56.7	64.8	.4	79	6	52	27		0	0	0	0	1.76	- .24	.87	14	.0	0		4	1	0
LAHAINA 361		84.7	67.1	75.9		90	6	63	28+		1	0	0	0	.25	- .96	.15	6	.0	0		2	0	0
PAIA 406															1.58	- 1.33	.50	6	.0	0		4	1	0
WAILUKU 392		M	M	M		85	14				0	0	0	0	*				.0	0			0	0
ISLAND				70.0											3.36				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		80.6	65.9	73.3	1.3	84	6+	62	28		0	0	0	0	5.40	- .27	2.56	30	.0			4	3	2
HAWAII VOLCNS NP HQ 54		68.2	52.7	60.5	- .3	76	3	45	1		0	0	0	0	6.24	- 3.94	1.55	7	.0			11	4	1
HILO WB AIRPORT 87	R	81.5	65.0	73.3	.1	86	30	61	27		0	0	0	0	6.33	- 7.04	1.15	7	.0			13	4	1
HUEHUE 92.1	A														.00	- 2.93	.00		.0				0	0
KAINALIU 73.2		78.8	61.6	70.2		82	17+	58	28		0	0	0	0	3.00	- 1.27	.97	24	.0			3	3	0

See Reference Notes Following Station Index
SPECIAL WEATHER SUMMARY ON PAGE 123

CLIMATOLOGICAL DATA

Continued

HAWAII
NOVEMBER 1969

Station		Temperature									No. of Days				Precipitation							No. of Days		
											Max.		Min.						Snow, Sleet					
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191		75.4M	50.6M	63.0M		80	23+	44	10		0	0	0	0	.73		.50	30	.0	0		2	1	0
KEAAU 92		81.9	64.3	73.1	.5	85	17+	61	13		0	0	0	0	5.55	- 8.38	.78	7	.0	0		13	4	0
KEALAKEKUA 26.2		79.6	62.7	71.2		82	17+	59	28		0	0	0	0	.98		.34	24	.0	0		3	0	0
KONA AIRPORT 68.3		83.1	65.6	74.4		86	5+	62	5+		0	0	0	0	1.21		1.13	24	.0	0		1	1	1
KUKUIHAELE HIC 199															4.04	- 2.72	1.75	30	.0	0		6	3	1
KULANI CAMP 79		63.9M	45.7M	54.8M		71	3+	41	8+		0	0	0	0	6.69		2.00	7	.0	0			5	2
MAUNA KEA BEACH 98		85.9	70.6	78.3		92	8+	66	28		6	0	0	0	.21		.20	24	.0	0		1	0	0
PAHALA 21		79.8	62.6	71.2	- .6	87	6	60	27+		0	0	0	0	1.05	- 4.39	.26	23	.0	0		5	0	0
POHAKULOA 107	A														.18				.0	0			0	0
PUAKO 95.1	A														1.91		1.86	24	.0	0		1	1	1
PUU WAAWAA 94.1	A														.99	- 1.10	.66	24	.0	0		2	1	0
UMIKOA 118															2.70	- 3.70	1.83	7	.0	0			1	1
WAIAKEA SCD 88.2															9.37		2.58	7	.0	0		14	7	1
ISLAND				69.4											3.14				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 8+ AT MAUNA KEA BEACH 98, HAWAII

LOWEST TEMPERATURE: 28° ON THE 25TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 29.76 AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 4 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.96 ON THE 19TH AT MOUNT WAIALEALE 1047, KAUAI

See Reference Notes Following Station Index

HAWAII - NOVEMBER 1969

SPECIAL WEATHER SUMMARY

The month was characterized by continued dry weather over all the islands except Kauai and Oahu, by gale-force trade winds on the 5th, and by the sighting of three funnel clouds.

Very dry weather continued over most of the State. Only on Kauai and Oahu did more than a few scattered rain gages receive more than their averages for the month. All rainfall stations on Molokai and Lanai, more than one-half of those on Maui and more than one-third of those on Hawaii reported less than one-half their November normals. The 3.56 inches at East Honokane, Hawaii, and the 0.20 inches at Olowalu Gulch, Maui, were the lowest November totals ever recorded at those stations in 43 and 57 years of record, respectively. But despite the protracted dry weather (for some parts of Molokai, Lanai, Maui, and Hawaii, it was the tenth consecutive month of below-normal rainfall, and for many places on Oahu and Kauai the first month with above-normal rainfall in the same period), little in the way of water shortages or of damage to pastures, crops, or livestock was being reported.

Northeast to easterly trade winds from a strong high pressure area centered 1,200 miles north of the Hawaiian Islands brought 40 to 45 mile-an-hour gusts to many parts of the State on November 5. On Hawaii Island winds accelerated in sweeping through the saddle between the Kohala Mountains and Mauna Kea gusted to 69 m.p.h. at Kamuela Airport (elevation 2,665 feet) at 9:55 a.m., the highest speed recorded in the State during the period, and spilled over into the ordinarily sheltered leeward coast, where Mauna Kea Beach registered a fastest mile (approximately a 1-minute average) of 49 m.p.h. from the east at 1:14 p.m., and some slight damage.

Along the west Maui coastal strip, trade winds funnelling through mountain gorges to the east did scattered damage to roofs and to public utility poles and lines, while reddish dust lifted hundreds of feet high from fields and construction sites blanketed sections of the area, greatly reduced visibilities, and -- according to one newspaper report -- reached at least to Kahoolawe Island, about 15 miles to the south.

Several funnel clouds were sighted during the month, but all of them appear to have remained aloft.

At 4:53 p.m., November 12, a dark grey pencil-like funnel lasting 12 minutes, and moving northwestward far southwest of Honolulu International Airport, preceded by about half an hour the arrival of heavy thunderstorms accompanying a cold front. At its lowest, the funnel reached 1,000 feet below cloud bases at 2,500 feet, and it alternately extended and retracted until obscured by approaching showers.

At 11:25 a.m., on the 13th, a funnel lasting 8 minutes, and accompanied by a rainshower, was sighted over the ocean about 5 miles southeast of Honolulu International Airport, extending from one of many scattered clouds with bases at 2,300 feet.

On November 20 at 10 a.m., a funnel cloud was spotted 5 miles northwest of Kona Airport, Hawaii Island, lasting 10 minutes and extending from scattered clouds with bases at 2,500 feet.

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DAILY PRECIPITATION

HAWAII
NOVEMBER 1969

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																
ANAHOLA 1111	A	6.46					.16	.03	.10	*	*	.60		.03	1.73	.48	*	*	.65		.42	.39	.63	*	*	1.20	.04						
BRYDESWOOD STA 985	A	5.66	*	*	.01	.01	.10	.20	.03	*	*	1.36	.03	.35	.59	.28	*	*	.87	.01	.30	.24	.75	*	*	.44	.05	.04	*	*	*	*	
EAST LAWAI 934	A	7.30					.12	.43	.14	*	*	1.32	.01	.33	1.45	.43	*	*	.91		.14	.63	.32	*	*	1.04	.03		*	*	*	*	
ELEELE 927	A	3.60					.02	.09	T	*	*	.98	T	.46	.67	.08	*	*	.76		.10	.01	.24	*	*	.18	.01						
HALAULA 1110	A	8.04					.16	.11	.03	*	*	1.35	.25	.04	2.45	.35	*	*	.80		.35	.50	.62	*	*	.90	.09	.04	*	*	*	*	
HALENANAHO 1006	A	9.20					.11	.13	.05	*	*	.35	.28	.08	2.90	.24	*	*	.84		.27	.97	.46	*	*	2.42	.10		*	*	*	*	
HUKIPO 945		3.71										.30		.35	1.94	.12		.65				.05				.23					.07	
ILILILUA INTAKE 1050	A	14.29				.05	.46	.38	.20	*	*	2.47	.46	.18	2.12	.21	*	*	1.25	.02	.68	2.10	.99	*	*	2.42	.24	.06	*	*	*	*	
INTAKE WAINIHA PC 1086	A	12.42				*	*	1.25	*	*	*	1.22	*	*	1.60	*	*	*	.59	*	*	6.20	.39	*	*	1.05	*	*	*	.12	*	*	
KALIHIWAI RES 1131	A	10.89					.23	.22	.10	*	*	.36	.25	.12	1.86	.05	*	*	.88		.71	3.23	1.25	*	*	1.40	.19	.04	*	*	*	*	
KANALOHULUHULU 1075		5.59					.02	.33	.06	.28	.02	.05		.64	1.37	.34	1.05	.17	.03		.49	.34	.10	.05	.05	.06			.06			.08	
KANEHA RESERVOIR 1092	A	12.56	*	*	.02		.30	.35	.13	*	*	.80	.45	.10	1.70	.20	*	*	1.40		.55	1.70	.95	*	*	3.40	.10	.11					
KAPAA STABLES 1104	A	9.36				.01	.23	.05	.04	*	*	1.00	.80	.02	3.67	.08	*	*	.98		.67	.45	.25	*	*	1.09	.02		*	*	*	*	
KEALIA 1112	A	6.09					.14	.07	.05	*	*	.80	.03	.02	3.05	.15	*	*	.30		.42	.35	.20	*	*	.47	.04		*	*	*	*	
KEKAHA 944		4.07										.19		.55	2.37	.07	.62				.09		.02	.02	.06	.04	.01			.03			
KILAUEA 1134	A	8.93					.14	.07	.04	*	*	.11	.24	.11	2.58	.03	*	*	.85		.82	2.00	.60	*	*	.92	.34	.08					
KILAUEA FIELD 17 1135	A	10.72					.16	.23	.03	*	*	.38	.22	.12	2.24	.04	*	*	1.20	.01	.29	2.33	1.37	*	*	1.95	.09	.04	*	*	*	*	
KILAUEA POINT 1133		7.93			.30	.27	.10	.12	.12		.10	.14	.09	2.70	.03		.40			1.20	.95	.65	.11	.51	.05	.08	.01					
KOLO 1033		2.90											.11	.57	.98	.14	.87	.04								.10	.09						
KOLOA 936	A	8.19					.09	.24	.37	*	*	1.13	.03	.53	.73	.73	*	*	.43		.24	.68	.36	*	*	2.50	.13		*	*	*	*	
KOLOA MAUKA 994	A	8.67					.16	.31	.05	*	*	1.47	.13	.14	1.88	.13	*	*	1.13		.52	.75	.31	*	*	1.61	.08		*	*	*	*	
KOLOKO RES 1137	A	9.97	*	*	.01		.15	.20	.03	*	*	1.20	.02	.07	1.45	.07	*	*	.92	.01	.85	2.40	.58	*	*	1.78	.22	.01	*	*	*	*	
KUKUIULA 935	A	5.96					.02	.10	.18	*	*	1.15		.29	.55	.60	*	*	.61		.15	.36	.58	*	*	1.26	.11		*	*	*	*	
LIHUE VARIETY STA		10.58					.19	.21	.05	.24	*	1.00		.01	3.85	.33	.51	*	.66	.03	.60	.65	.25	.01	*	1.84	.13	.02					
LIHUE 1020	A	6.94					.04	.05		*	*	.36		.05	2.56	.35	*	*	1.02		.31	.71	.18	*	*	1.31				*	*	*	
LIHUE WB AP 1020.1	R	7.45				.02	.02	.03	T		.01	.93	T	3.82	.11	.21	.68			.05	.67	.18	T	.05	.61	T		T			.06	
MAKAHUENA POINT 940.1		8.62				.01	.04	.56	.02		.03	3.80	.05	.03	.68	.34	.30	.06		.01	.10	.37	.25	.06	1.63	.20	.03				.05	
MAKAWELI 965	A	2.99							.08		.28	.01	.16	1.68	.03	.48	.03					.07		.09	.01					.06	.01	
MANA 1026		4.62												.70	1.41	.20	1.02		1.01		.01	.08	.01		.02	.16						
MOHIHI UPR CROSS 1083	A	6.56					.11	.48	.16	.48	.05			1.38	.05	.32	.58				1.95	.47		.13	.20	.07					.13	
MOLOAA 1145	A	5.83					.13	.11	.03	*	*	.70		.07	.92	.18	*	*	1.09		.50	1.12	.35	*	*	.43	.18	.02					
MOUNT WAIALEALE 1047		29.76				1.42	.67	.98	1.97	3.66	.20	.55	.16	1.85	.28	.71	.12	.98		.12	4.96	2.20	3.86	2.32	1.77	.63	.31	.04					
NIU RIDGE 1035		3.17										.00		.42	1.15	.14		.94				.23			.10	.08			.05			
N WAILUA DITCH 1051	A	17.00					.80	.46	.40	*	*	2.00	.76	.30	2.90	.46	*	*	2.60	.06	.66	1.50	.80	*	*	2.80	.30	.20	*	*	*	*	
PH WAINIHA 1115		9.07					.20	.29	.11	.79		T		.35	1.10	.08	.15	.04			1.06	2.60	1.22	.16	.45	.35	.11	.01					
PRINCEVILLE RANCH 1117		7.51				.18	.09				.59	.05	.27	.82	.08	.21	.07				.95	1.76	.80	.14	1.18	.22	.08	.02					
PUEHU RIDGE 1040		6.39										.28	.17	.55	2.80	.35		.73				.35			.77	.33					.06	
PUHI 1013	A	7.54					.06	.11	.03	*	*	.63	.02	.04	2.06	.30	*	*	.81	.02	.35	.79	.36	*	*	1.92	.04		*	*	*	*	
RESERVOIR 6 1004	A	8.85					.13	.11		*	*	.78	.08	.21	2.27	.26	*	*	1.17		.33	1.09	.22	*	*	2.09	.11		*	*	*	*	
WAHIAWA 930	A	4.74					.02	.18	.05	*	*	1.40	.01	.65	.49	.14	*	*	.95	T	.11	.05	.38	*	*	.29	.02						
WAHIAWA MOUNTAIN 990	A	14.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.25	
WAIAHI LOWER 1054		12.25					.32	.37	.18	.23	.19	.26	.49	.06	3.16	.25	.51	.91	.09	.02	.49	.95	.64	.54	1.68	.72	.16	.02				.01	
WAIAHI UPPER 1052		12.42					.40	.40	.20	.45	.55	.35	.44	.13	2.66	.18	.50	.55	.15		.60	.93	.70	.73	1.55	.70	.22	.01				.02	
WAIAWA 943		4.22								.03		.10		.47	2.44	.08	.92				.04	.02		.07		.05						
WAILUA KAI 1065	A	7.48					.09	.02	.03	*	*	.56	.30	.02	3.80	.10	*	*	.75		.20	.60	.10	*	*	.86	.05		*	*	*	*	
WAIMEA 947		3.20										.11		.45	1.73	.11		.59								.14					.07	
WEST LAWAI 931	A	6.45					.07	.20	.11	*	*	1.98	T	.70	.32	.34	*	*	.92		.09	.35	.53	*	*	.77	.07		*	*	*	*	
* * * ISLAND OF OAHU																																
AIEA FIELD 625 761	A	6.91				.03		1.66							1.78	.07	*	*	3.01			.11		*	*	.22		.03					
BERETANIA PUMPING STA		1.70					T	.69					.20	T	.47	.12						.02	T			.17	.01						
CAMP 8A 807	A	5.18				*	*	.32	.01	.03			*	*	.82	*	3.19	*	.64	*	*	.03	*	*	*	.02	*	*	.12	*	*	*	
CHURCH COLLEGE LAIE		6.30			.20	.30	.20	.05			.70	.50	.20	1.00	.25	.50	.25	.60	.70	.20	.10	.10	.05		.20	.20						
COCONUT ISLAND 840.1		2.63				.06	.02	.40	.22	.08					.28	.19	.72	.01				.11	.01	.08	.37	.03					.05	
EWA PLANTATION 741		4.28						.07						.01	.61	.55	2.97					T				.07						
HELEMANO INTAKE 881	A	6.90	*	*	*	*	*	1.50	*	*	*	1.30	*	*	1.43	*	*					*					1.50	*	*	*	*	.11	
HONOLULA 725.2	A	5.67	*	*	*	*	*	*	*	*	*	*	.81	*	*	*	3.76	*	.98	*	*	*	.08	*	*	*	*	*	*	*	*	*	.10	
HONOLULU OBSERV 702.2		6.92					T	T							3.46	.40	3.00					.01		.03	T		.02						
HONOLULU WBFC 703	R	5.77				T	.09	.06	.01					1.61	T	2.43	1.22			T	.01	T	T		.33	T					.01	
HONOLULU SUBSTA 704		4.70				.03	.32	.18	.01					.70		3.24	.10								.10	.02						
H S P A EXP STA 707		5.06				T	T	.67	.31	.04					.35	.20	3.20					.01	.02		.03	.23	T						
KAHANA 883	A	12.76				*	*	*	*	*	*	2.76	*	*	*	*	*	*	2.40	*	*	*	*	*	*	*	7.06	*	*	*	*	*	.54	
KAHUKU 822	A	2.30				.05	.11	.06	.03	*	*	.04	.10	.02	.95	.13	*	*	.37			.08		*	*	.11		.25		*	*	*	
KAILUA FIRE STA 791.3		*	.01	T	.02	.04	.10	.13	.02				.01		.04	.05	1.38	T	T		.03				.21	T	.02	.03			.09	*	
KALIHI RES SITE 777		7.08					.44	.28	.14	.06				.08	.10	2.68	.04	.02		.04	.04	.02	1.62	.80	.46	.06				.06	.14	
KANEOHE MAUKA 781		4.03					.02	.47	.06	.27					.48	.06	1.85					.11		.04	.41		.05	.16				.05	
KANEOHE RANCH 838	A	3.34	*	*	*	.05	.04	.10	.07					*	.15	.20	*	*	2.15	*	*	.10	*	*	27	*	.08	*	.13		*	*	
KAPALAMA 773	A	6.43				.03	.05	.85	.70	*	*	*	.50		.75	1.75	*	*	1.40								.20	.20					
KAWAIHAPAI 841	A	5.40						.08		.05				.08	2.05	.10	2.75					.02		*	*	.02		.25					
KAWAI IKI INTAKE 880.2	A	5.30	*	*	5.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KEMOO CAMP 8 855	A	4.43				.01	.01	.42	.01	*	*	.26		.13	1.96	.13	*	*	1.30		*	.01	.01	*	*	.07		.11	*	*	*	*	
KODLAU DAM 833		*	*	.04	*	*	.32	3.78	.55	.52	*	.01	*	.05	.57	1.86	2.48	.04	*	*	*	.16	.08	1.50	.55	.30	1.44	.04	*	*	*	
KUALUALEI 804		4.37						.27							.65	.04	*	*	3.41													
KUALUALEI #TR TUNNEL	A	5.70	*	*	*	*	*	*	5.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
LUNALILO HOME 724.2		2.47	*	*	.07	.03	.03	*	*	*	*	.06	*	*	1.86									.12	*	.30						
MAKAHA KAI 796	A	3.07						.05							.90	2.00												.12				
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		2.67						.21	.05						.90	.01	1.32	.01				.02			.03	.08					.04	
MANOA 712		6.02					.03	1.28	.95	.28					.26	.24	2.68					.05	.13	.16	.11	.39	.06					
MANOA TUNNEL 2 716		10.46				.08	1.36	.32	.22	.14		.02		.06	.04	4.32	.06		.02		.08	.04	1.70	1.14	.38	.24	.14	.02			.06	.02	
MOANALUA 770		*					T	.91	.21	.25					1.01	.15	3.76					.05	.01	*	*	.20					*		
NUUANU RES 4 783		5.58					.12	.12	.20	.40	.02	.04		.04	.16	2.38	.02		.02				1.24	.60	.20							.02	
NUUANU RESERVOIR 5 775	A	8.33				*	.15	1.12	.36	*	*	*	.71		.32	.18	*	*		3.05	*	T	.35	*	*	1.42	.20	.20			*	.27	
OPAEULA 870	A	4.50					.03	.93	.46	*	.41	.01		.05	1.17	.05	*	.48				.12	.03	*	.56	.05	.05	.10					
PALOLO VALLEY 718		9.18				.08	1.26	.24	.12	.08		.02	.02		.04	3.68	.04	.02			.06	.04	1.38	1.42	.38	.14	.02			.04	.10	
PAUOA FLATS 784		13.24				.22	1.40	1.10	.56	.50		.04	.02	.14	.16	3.80	.04		.04	.02	.22	.04	2.46	1.72	.42	.18	.10	.02			.02	.04	
PORTLOCK ROAD 724.4		*	.04	.02	.02				.08	.03	.02	.03	.10	.03	.04	2.36	.18	.04	.02			.02	.01	.03	.04	.03	.02	.02	*	*	*	*	
PRI WAHIAWA 820.2	A	5.36				*	.04	.99	.17	*	*	.29			.82	.11	*	*	2.38			.01		*	*	.21	T	.34	*	*	*	*	
PUNALUU 884	A	2.46				.05	.06	.09		*	*	.01	.36	.02	.84	.06	*	*	.49			.16	.02	*	*	.22	.07	.01	*	*	*	*	
PUNCHBOWL CRATER 709	A	5.15					.01	.82	.40	.16					.43	.25	2.60					.08	.04	.01	.01	.20	.05	.03	.01	.01	.03	.01	
ST STEPHENS SEM 788		4.49					.13	.29	.04	.05					.15	.13	3.05	T				.11	T	.10	.31	.01	T				.10	
TANTALUS 2 780.5		9.08				.04	.07	2.63	1.07	.32	.03				.22		2.67					.12	.35	.46	.31	.29	.35	.12				.03	
UNIV OF HAWAII 713	A	5.31				T	.01	.90	.46	*	*	*	.05	T	.16	.20	*	*	3.11			.02	.03	*	*	.36	.01	T			*		
WAHIAWA DAM 863	A	4.90				.03	.03	.60	.10	*	*	.30		.03	1.32	.08	*	*	1.96			.05	.01	*	*	.15		.24	*	*	*	*	
WAIAHOLE 837	A	4.91					.10	.52	.17	*	*	.36	.02		1.22	.05	*	*	.96			.03	.02	*	*	1.29	.07	.10					
WAIALAE KAHALA 715		3.77					T	.15	.07	.01					.07	.03	3.22	T	T			T		T	.05	.12	T	.02	T			T	
WAIALUA 847	A	3.48						.27	.02	.07				.07	1.49	.04	1.31					.04			.02		T	.15					
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIANAE MAUKA 803	A	8.35	.06	*	*	*	.12	*	*	*	1.14	*	*	.10	*	*	6.10	*	*	*	.14	*	*	.17	*	*	*	.50	*	*	.02	*	
WAIAWA 836	A	14.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.13	
WAIKANE 885	A	4.73				*	*	*	*	*	*	1.46	*	*	*	*	*	*	.86	*	*	*	*	*	*	2.04	*	*	*	*	*	.37	
WAIKIKI 717.2		3.90					T	.10	T						.14	.10	3.37	.01				.01			.03	.11	T	.03	T			T	
WAILUPE RESV. 723.2	A	3.58	*	*	*	*	*	.25	*	*	*	*	*	*	.02	*	*	*	*	*	*	2.80	*	*	*	*	*	.51					
WAIMANALO EXP FARM		2.44						.14							.65	.02	1.30					.05			.08	.02					.18	
WAIMEA 892	A	5.08					.01	.40	.23	*	*	.73		.05	2.25	.08	*	*	.52			.01	.04	*	*	.65	.04	.07					
WAIPAHU 750	A	5.31				.01		.37	.03						1.52	.29	3.00					.02		*	*	.07							
WILHELMINA RISE 721		4.46					.24	.42	.10					.04	.04	3.02				.02	.02			.12	.36	.04	.02	.02					

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII
NOVEMBER 1969

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF MOLOKAI																															
KALAUPAPA 563	A	1.81	*	*	*	.22	.38	*	.24	*	*	*	*	*	*	*	.04	*	*	*	*	*	*	.08	.22	.03	.15	*	*	*	.33	.12	
KAUNAKAKAI 536	A	.00																														
KEONELELE PENS 551	A	2.00														1.00			.38						.62							
KUALAPUU 534	A	1.36						.67	.17									*	.08		.06	.01		*	*	.09				*	*	.28	
MAPULEHU 542		*	*	*	*	*	.56	.13	.02	*	*	*	*	*	*	*	*	.06	*	*	.04	*	*	.11	.09	.08	*	*	*	*	.08	*	
MAUNALOA 511	A	.62						.04								.04	.34								*	.20						
MOLOKAI AP 524		.78	T	T				.37	.02								.14				T		T		.07	.03				.15	T	
PUUOHOKU RANCH 542.1		1.15				.02	.40	.07	.07												T		.25		T		.01	.01		.27	T	
WAIKOLU 540	A	3.68						2.30					.80						.19							.39						
* * * ISLAND OF LANAI																															
KANEPUU 690	A	.37														*	*	*	*	*	*	.30	*	*	*	*	*	.07	*	*	*	*	
KAUMALAPAU HARBOR 658	A	.38															*	*	.24					*	*	.14		T					
LANAI CITY 672	A	.52						.12	T				T	.04			.22		T						T	.14			*	*	*		
LANAIHALE 684	A	1.10	.05	*	*	*	*	*	*	.21	*	*	*	*	*	*	.12	*	*	*	*	*	*	.07	*	*	*	*	*	*	.65	*	
MAHANA 694	A	.38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.38	*	*	*	*	
MALAUEA 676	A	.24														*	*	*	*	*	*	.08	*	*	*	*	*	.16	*	*	*	*	
WAIAKEAKUA 665	A	.51	*	*	*	*	*	*	*	*	*	*	*	*	*	.14	*	*	*	*	*	*	*	*	*	*	*	.37	*	*	*	*	
* * * ISLAND OF MAUI																															
AUWAHI-252	A	.92	*	*	*	*	*	*	*	*	*	*	*	.35	*	.40	*	*	*	*	*	*	*	*	*	*	*	*	.17	*	*	
HALEAKALA 8 E S 434	A	5.08					.05	1.50	.80	.18						.08	.15	.01				.03		.47	.04			.01		.95	.81	
HALEAKALA RANCH 432	A	2.81	*	*	*	*	*	.72	.24	*	*	*	*	*	*	.14	.54	*	*	*	*	*	*	*	*	.05	*	*	*	*	1.12	
HALEAKALA RS 338		2.88					T	T	2.00	.07	T				T	.10	.01	T			T	T		.14	.12	.06	T			.07	.31	
HALIIMAILE 423	A	2.68					.02	.61	.60	*	*	.06									.06			.03	*	.04			*	1.26		
HAMAKUAPOKO 485		2.50					.03	.72	.55	.19		.05									.05	.04	.02	T	.03	.02				.43	.37	
HANA 354		3.46		*	.01			.80	.08	.15	*	.02		.40		.09	*	*	.15		.23	.12	.10	.24	*	.75		.04	.06	.22		
HANA AIRPORT 355		4.17		T		.11	T	.88	.07	.08	.18	T	T	.48		.09	.26		.12	T	.11	.08	.06	.32	.58	.02	.13	T	.32	T	.19	.09	
HANAHULI 281		5.01			T	T	.05	1.42	.09	.10				.13			.26			.10	.10	.06	.05	.32	1.45	.58	.02				.03	.25	
HOLUA CABIN 259.5	A	2.52	*	*	*	*	*	*	*	*	*	*	*	1.48	*	*	*	*	*	*	*	*	.60	*	*	.44	*	*	*	*	*	*	
HONOKOHAU 480	A	6.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.30	
HONOKOHUA 493	A	1.28					.03	.66	.28	*	*	.09			.05								.02	*	*	.07	.02	.06	*	*	*	*	
HONOMANU GULCH 341	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.00	
KAANAPALI AIRPORT		.43						.31									T								.07	T				.05		
KAHOHA INTAKE 374	A	4.61	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.61	
KAHULUI WB AP 398	R	.50					.01	.26	.08							T				T	T				.03					.01	.11		
KAILILI 436	A	8.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.03	*	*	*	*	*	*	*	*	*	*	*	8.82	
KAILUA 446		7.05			.08		.09	1.48	.54	.61	.05										.28	.02	.14	.05	.48	.02	.05	.05	.02	.02	2.17	.87	
KAUAULA INTAKE 375	A	1.05	*	*	.03	*	*	*	*	*	*	.97	*	*	*	*	*	*	.03	*	*	*	*	*	*	.02						
KEAHUA 410		1.68						.20	.09	T							T				.03				.01	.04				1.05	.26	
KEANAE 346	A	11.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.10	
KEAWAKAPU BEACH 260.2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KIHEI 311		.31																								.04				.22	.05	
KIPAHULU 258		4.19				.03		.10	.60			.13		.28	.09		.17		.08		.17	.12	.22	.80	.68	.72						
KULA HEIGHTS 323.2		.21														.08									.05					.08	
KULA SANATORIUM 267		1.76	T													.87	.23							.11	.05	.35	.04			.04	.07	
LAHAINA 361		.25						.15																	.10							
LAUNIUPOKO INTAKE 376	A	2.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.40		
LAUNIUPOKO VILLAGE 372	A	.75						.67																	.08								
LUPI UPPER 442	A	8.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.80		
MAHINAHINA 466	A	2.03						1.05	.68																.10					.20			
NAKALELE -FLO 60-497	A	1.46										.70	*	*	*	*	*	*	.05	*	*	*	*	*	*	.14	*	*	*	*	.57		
OLINDA 332	A	2.11	T				.01	.92	.17	*	*	*	.03	T	.01	.38	*	.16	*	T	T			*	*	.43	T			*	*		
OLOWALU 296		.04																							.04								
OLOWALU GULCH 377	A	.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.20		
PAAKEA 350		10.89			.08		.21	2.59	1.35	.97	.21			.07					.08		.08	.17	.20	.26	.65	.08	.71	.10	.02		1.03	2.03	
PAIA 406		1.58					.01	.50	.35	.03											.04	.01								.35	.29	
PANILEIHULU 259.2	A	5.70	*	*	*	*	*	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.50	*	*	*	*	
PAUWELA 490	A	2.56					.37	1.14	.44	*	*	.24									.09	.03	.02	*	*	.22	.01		*	*	*	*	
POHAKEA BRIDGE 307.2	A	.35	*	*	*	*	*	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.07	.02	*	*	*	.20	.05	
POLIPOLI SPRINGS 267.2	A	.93	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.93		
PUOHOKAMOA 2 343	A	14.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.40		
PUU KUKUI HAKAI 472	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00		
PUUNENE 396		.19						.08	.02																.03					.06			
SPRECKELSVILLE 400.2		.88						.28	.17	.01											.01				.03					.22	.16		
TWIN GATES 261.3	A	.00																														
UKULELE 333	A	3.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.50		
UKUMEHAME 301	A	.07																							.07								
ULUPALAKUA RANCH 250		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.10	.05	*	*	*	.06	*	
WAHIKULI 364	A	.54						.42	.04																.08								
WAIEHU CAMP 484	A	.94	*	*	*	*	*	.29	.20	*	*	*	*	*	*	*	.03	*	*	*	.09	.02	*	*	*	.04	*	*	*	*	.04	.23	
WAIHEE VALLEY 482	A	1.58	*	*	*	*	*	.24	.29	*	*	*	*	*	*	.14	.05	*	*	*	.10	.04	*	*	*	.07	*	*	*	*	.15	.50	
WAIKAMOI 349	A	9.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.10	
WAIKAMOI OAM 336	A	8.31			T	.01	.22	3.74	1.98	*	*	*	.64	.02	T	.29	*	*	.03		.07	.21	*	*	.85	.11	.13	*	.01	*	*		
WAIKAPU 390	A	.66	*	*	*	*	*	.03	*	*	*	*	*	*	*	*	.05	*	*	*	*	*	*	.03	.03	*	*	*	*	*	.36	.16	
WAILUKU 392		*						.10	.08								*	*	.03		T	T		*	*	.03				*	*	*	
WAIOPAI RANCH 256	A	2.08				*	*	*	.29				*	*	*	1.27	*	*	.13					*	*	.39							
* * * ISLAND OF HAWAII																																
AHUA UMI 75	A	.23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.23	
AWINI 182.1	A	7.20	*	*	.16			.38	1.40	*	*	.66					*	*	.13					*	*	.03	.17	*	*	4.27			
EAST HONOKANE 183.2	A	3.56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.56	*	*	
HAINA 214		5.40		.07	.01		.02	.19	1.14	.24															.01	.03		.35	.01		.77	2.56	
HAKALAU 142		6.72			.59		.26	.40	.71	1.20	.05								.21		.20	.09	.59	.12	.55	.04	.09	.04	.18	.01	.78	.61	
HALEMAUMAU 52	A	1.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.86	
HALEPIULA 117	A	1.45	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.45	
HALEPOHAKU 111	A	.68						.01									.04						.03	.48		.16				T			
HAWAII VOLCNS NP HQ 54		6.24	.02		.07	.03	.03	.80	1.55	.98	.29	.02	.06	.01		.24	.02		.39	.02		.02	.14	.20	.36	.27		.60	.06	.02	.04		
HAWI 168	A	5.00				.01		.24	.54	*	*	.01					*	*	.05					*	*	.01	.02	.02	*	4.10			
HILO WB AIRPORT 87	R	6.33		.31	.22	.01	.17	.81	1.15	.16	T				T	T	T	.20	.08	.01	.14	.33	.87	.65	.09	.01	.35	.32		.34	.11		
HOLUALOA 70	A	2.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	2.50	
HOLUALOA BEACH 68	A	1.52		.34													.04			.34						.74				.06			
HONAUNAU 27		3.43							.02		.04	.02	.02	.05	.40	1.65	.20	.20	.02	.01					.10	.48	.01		.05	.10	.04	.02	
HONOHINA 137		6.14			.44		.17	.37	.92	1.44	.02								.20		.08	.05	.77	.09	.56	.03		.04	.11		.30	.55	
HONOKANE 181.1	A	8.08	*	*	.21			.41	2.49	*	*	.69						*	.15							.05	.05		*	4.03			
HONOMU MAUKA 138		9.94			.65	.01	.15	1.18	1.84	1.24	.07			.02		.02			.69	.01		.22	.92	.22	.79	.13	.02	.20	.38		.96	.22	
HONUAULA 71	A	1.72	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.72	
HUALALAI 72	A	.98	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.98	
HUEHUE 92.1	A	.00																															
KAALA IKI 12	A	4.41		1.15	.31	.05					.28	.01		.42		.52	T	.02	.33	T			T	.24	.67	.38				.03			
KAAWALOA 29	A	1.23				.07				*	*	*	.09				*	*	.04	.05			*	*	*	.46			.52				
KAINALIMU 73.2		3.00				.23						T				.09	.06	.10	.07	T					.04	.97			.73		.03		
KALAPANA NO 1 67.8		6.13		.26	.55	T	.04	.10	.04	.24	.12	*	*	*	*	*	1.05		*	*	.81	T	1.45	.76	.56	*	*	.10		T	.01	.04	
KAMAOA NO 2 5	A	2.29	*	.33	*	*	*	*	*	.19	*	*	*	*	*	*	.67	*	.46	*	*	*	*	*	*	.46	*	*	*	*	.18	*	
KAMUELA 192.2		1.30				.01			.26	.05									.03									.05			.30	.60	
KAMUELA AIRPORT 191		.73	T						.12	T			T						.02	T		T	T	T			.03	T		.06	.50	
KAPAPALA RANCH 36	A	1.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.43	*	.03	.04	*	*	*	.64	*	.12	*	*	*	*	*	*	
KAPOHO LANDING 93.5	A	6.66	*	*	*	*	*	*	1.76	*	*	*	*	*	*	.24	*	*	*	*	*	.10	3.60	*	*	*	*	*	*	1.06	*	*	
KAUMANA 88.1		10.17			.86	.05		.70	2.42	1.36	.12			.14		.07		.01	.52	.01		.10	.92	.42	.90	.06	.07	.80	.05		.47	.12	

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAWAINUI LOWER 193	A	4.36	*	*	*	*	*	*	2.38	*	*	*	*	*	*	.32	*	*	*	*	*	*	.98	*	*	*	*	*	*	.68	*	*	1969
KEAAU 92		5.55			.35	.02	.02	.53	.78	.63	.05						.01	T	.02	.04	T		.77	T	.10	.34	T	T	.32		.15		
KFALAKEKUA 26.2		.98				.03			.06	.06								*	*	*	*	*	*	*	*	*	*	*	*	2.93	*	*	
KEHENA 181.2	A	2.93	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.40	
KIOLAKAA A & F 6	A	7.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
KIPA 89.2	A	12.23			.66	.04	.08	.89	3.83	1.33	.18	.01		.14		.09			.63	.09		.22	.65	.46	1.18	.10	.04	.96	.32	T	.11	.22	
KOHALA 179.1	A	4.38	*	*	.01			.16	.67	*	*	.16					*	*	.05					*	*	.01	*	.01	*	3.31			
KOHALA MAULILI 176	A	5.34	*	*	.02	.01		.08	1.35	*	*	.22	.01				*	*	.10	.01			.02	*	*	.02	.02	.01	*	3.47			
KOHALA MISSION 175.1		5.73		.01	.02			.26	.98	.06									.08	T			T	T	.01	.02	T	T	.09		1.90	2.30	
KOIAWE LOWER 195	A	2.56	*	*	*	*	*	*	1.80	*	*	*	*	*	*	.02	*	*	*	*	*	*	.42	*	*	*	*	*	*	.32	*	*	
KONA AIRPORT 68.3		1.21				.02	T			.05								.01							T	1.13							
KONA VILLAGE 93.8		.53						.02									.01									.50							
KUKALAU 222		4.99			.01			.11	3.03	.92									.01			.04	T		.05	.02		.08	.03		.27	.42	
KUKUIHAELE MIC 199		4.04			.10			.10	.85	.31								.01	.03						.07	.03		.08	.08		.63	1.75	
KUKUIHAELE MILL 206	A	2.86						.06	.63	*	*	.17												*	*	.01		.10	*	*	*	1.89	
KULANI CAMP 19		6.69			.08	.01		1.00	2.00	.75	*	.32	.04			.03	.13	.01	.30	*	*	.01	.10	.12	.79	.36	.02	.50	.67	*	.05		
KULANI MAUKA 76	A	2.40					.15	.82	.28							.18			.06				.12	.53	.02	.09	.10	.05					
KULANI SCHOOL SITE 78	A	8.71	.11	*	*	*	*	*	*	3.85	*	*	*	*	*	*	.40	*	*	*	*	*	*	.60	*	*	*	*	*	*	*	3.75	*	
LANIHAU 68.2		2.94								.64								1.33								.82			.15				
MANUKA 2	A	1.06	*	*	.23	*	*	*	.21	*	*	*	.26	*	*	.04				*	*	*	.13	*	*	.19	*	*	*	*	*	*	
MAUNA KEA BEACH 98		.21											T		T					T						.20						.01	
MAUNA LOA SLOPE OBS		.08																						.04	.04								
MIDDLE HOLUALOA 68.1	A	2.31	*	*	*	*	*	*	*	.30	*	*	*	*	*	*	.21	*	*	.05	*	*	*	*	*	1.11	*	*	*	.52	*	.12	
MIDDLE PEN 147.1	A	.00																															
MOAULA 18	A	.45	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.45	
MOUNTAIN VIEW 91		9.06			.61	.05		.70	1.98	1.71	.14					.09			.36	.19	.02	.10	.77	.63	.88	.25	.02	.25	.20		.11		
NAALEHU 14	A	3.22	*	*	.34	.01				T	.08	.02		.48	T	.78	*	.02	.50	.03			.01	.25	.61	.09			*	*	*		
NAPOOPOO 28	A	.48	*	*	.01							*	*	*	*	*	*	*	.02	*	*	*	*	*	*	.45	*	*	*	*	*		
NAULU FOREST 38.6		6.13	T		.28	.01	.02	.40	.25	.31	.25	*	*	*	*	*	3.00	T			T	T	.43	.90	.03	*	*	.25		T		T	
NIULII 179	A	4.15	*	*	.02			.12	.87	*	*	.15					*	*	.05					*	*	.06			*	2.88			
OOKALA 223		3.69		.01	.04			.11	1.10	1.28	.01					.07			.05			.10	.05		.15	.04			.04		.46	.25	
OPIHIMAILE 2 24.1		.50		T		.03	T		T			T	.01	T					.20	.03			.02	T	.05	T	.08	.01					
ORCHID LAND EST 41.5	A	6.40	*	*	*	*	*	*	*	1.99	*	*	*	*	*	.49	*	*	*	*	*	*	2.27	*	*	*	*	*	*	1.65	*	*	
PAAUMAU 217		3.06		.02				.14	1.18	.16												.01				.05		.04	.01		.73	.72	
PAAULLO 221		4.39			T			.08	2.06	.78									T			.02	T		.04	T		.06	.01		.75	.59	
PAHALA 21		1.05		.13							.03	.05		.13		.22			.02	.03			.01	.11	.26	.06							
PAHOA 65		6.87			.48	.03	.05	.67	.69	.53	.05		.03			.11			.75	.19	.11	.12	1.62	.34	.31	.13	.24	.03	.23		.16		
PAKAO 37	A	2.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.30	
PAPAIKOU 144.1		7.28			.33	.01	.01	.35	1.34	.56	.06							T	.41	.06		.32	1.43	.23	1.09	.26	.11	.35	.08		.28		
PAPAIKOU MAUKA 140.1		10.60			1.00	.04	.02	.45	3.23	.89	.16			.19		.06	.06	.02	.55	.14		.22	1.17	.32	1.08	.23	.06	.11	.23	.22	.15		
PEPEEKEO MAKAI 144		7.02		.01	.74	.01	.14	.59	.69	.82	.20								.42	.01	.01	.19	.75	.12	.88	.02	.07	.15	.06		1.04	.10	
PIIHONUA 89	A	18.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.18	*	*	*	*	*	*	*	18.40	
POHAKULOA 107	A	.18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			1.86						.05	
PUAKO 95.1	A	1.91																														1.88	
PUU KIHE 120	A	1.88	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PUU LAAU 102.1	A	.92	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.92	
PUU LEHUA 73	A	.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.35	
PUU MALI 113	A	.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.43	
PUUOKUMAU 167	A	6.24	*	*	.02	.01		.43	1.48	*	*	.02		.01	.01		*	*	.06	.01				*	*	.02			*	4.17			
PUU OO 82		4.59			T		.02	.34	.84	.65	.12	.03	T			.17	.05		.17		.01	T	.08	.15	.90	.58	T	.42	.04		.02	T		
PUU WAAWAA 94.1	A	.99								.03						.04										.66						.26	
SADDLE ROAD 1 84	A	15.96	*	*	*	*	*	*	6.67	*	*	*	*	*	*	3.37	*	*	*	*	*	*	1.26	*	*	*	*	*	*	4.66	*	*	
UMIKOA 118		2.70						.02	1.83	.08		.03				.01						.03	.02	*	*	*	.06	.45			*	*	.17	
UPOLU POINT USCG 159.2		3.30						.57	.59									T	.14		.01						.02	.02	.03		.57	1.35	
WAIAKEA SCS 88.2		9.37			.80	.07	.20	.92	2.58	.86	.15				T	T	.02		.37	.08		.04	.95	.28	.90	.25	.08	.62	.10	T	.10		

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.) Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Relative humidity averages-percent Standard of Time 150TH MERIDIAN 02	08	14	20	Number of days with precipitation Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
HILO, HAWAII, W8 AIRPORT	17	2.1	5.9	22	SE	30	87	79	71	84	4	5	11	3	1	0	24	40	7.2
HONOLULU, OAHU, W8FC	6	7.7	10.9	30	NE	05	75	72	57	70	6	5	1	0	2	1	15	59	5.1
KAHULUI, MAUI, WB AIRPORT	6	6.8	9.9	30	NE	07+	81	81	59	77	3	4	2	0	0	0	9	72	4.7
LIHUE, KAUAI, W8 AIRPORT	5	5.8	10.4	27	E	07	84	83	71	81	5	7	3	4	0	1	20	44	6.8

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	72	73	72	73	72	66	68	68	66	68	67	63	66	63	66	72	70	66	65	64	69	68	68	67	65	68	68	70	70	66		68.0
	MIN	44	45	46	45	59	59	56	55	51	55	50	54	49	55	58	54	48	55	58	58	55	57	56	55	51	49	37	38	44	53		51.6
KILAUEA POINT 1133	MAX	87	83	81	80	81	81	79	80	83	81	87	78	81	80	86	88	81	80	81	76	79	75	78	78	79	78	80	81	81	82		80.8
	MIN	70	71	71	72	71	73	71	71	71	70	69	68	70	71	74	73	74	70	66	67	72	67	70	71	73	71	66	68	70	68		70.3
LIHUE W8 AP 1020.1	MAX	81	82	82	83	83	83	82	82	77	81	83	75	83	77	83	81	82	80	77	80	81	78	79	81	81	81	80	80	80	82		80.7
	MIN	65	68	70	74	76	76	74	71	70	70	67	68	69	71	73	73	73	72	71	71	74	73	71	73	70	68	65	64	66	69		70.5
MAKAHUENA POINT 940.1	MAX	87	86	85	85	85	85	82	81	85	79	84	85	76	86	86	85	83	86	83	89	76	83	79	82	82	84	81	81	82	82		83.2
	MIN	69	71	71	72	76	69	72	69	75	70	70	70	68	74	67	75	70	74	70	71	68	74	68	69	70	67	70	67	66	70		70.4
MANA 1026	MAX	86	88	86	85	84	87	89	84	86	84	86	85	80	85	80	84	85	83	84	81	80	82	81	82	84	83	81	79	83	85		83.7
	MIN	66	63	62	61	66	65	63	66	62	69	68	67	68	71	71	59	67	66	69	68	67	67	66	65	62	67	62	58	64	65		65.3
NIU RIDGE 1035	MAX	81	82	83	83	82	83	82	83	82	81	81	82	75	80	81	82	80	81	80	78	77	80	81	80	82	80	79	80	80	81		80.7
	MIN	60	61	61	60	61	62	61	60	60	60	60	65	60	60	60	61	60	60	61	60	61	62	64	63	62	60	60	60	61	60		60.9
WAIAHI LOWER 1054	MAX	81	82	81	78	79	76	76	79	78	76	79	78	79	78	78	79	80	79	76	75	75	75	74	75	78	76	80	78	79	80		77.9
	MIN	62	60	59	66	68	70	66	64	64	65	61	61	61	61	63	64	65	65	66	64	66	67	66	66	60	61	56	54	55	56		62.7
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	83	86	85	85	84	81	82	84	83	85	83	86	83	79	84	84	85	82	82	82	83	82	82	81	78	81	83	83	83	85		83.0
	MIN	63	61	64	67	74	72	71	67	62	65	65	68	64	70	66	65	66	64	63	69	67	66	69	67	64	61	61	61	67	67		65.9
HONOLULU W8FC 703	MAX	86	87	90	89	89	84	88	88	85	87	85	84	85	82	85	88	88	85	85	86	87	85	84	86	86	85	86	84	87	85		86.0
	MIN	69	68	71	75	77	75	74	74	68	71	71	71	70	71	71	70	72	72	72	74	74	73	72	73	71	69	66	66	70	73		71.4
HONOLULU SUBSTA 704	MAX	80	84	85	82	82	79	78	81	80	83	79	79	80	79	83	83	82	78	79	80	82	81	78	79	80	80	79	82	80	81		80.6
	MIN	69	69	72	75	75	74	72	71	70	71	72	72	69	67	70	71	72	71	70	72	73	73	71	72	72	70	68	68	70	72		71.1
KAHUKU 912	MAX			85	84	84	82	80			84	84	83	82	83			84	83	82	82	81			81	81	79	80					
	MIN			63	71	71	73	72			66	69	69	64	68			67	73	73	70	74			71	73	71	65					
KANEOHE MAUKA 781	MAX	83	83	84	81	82	80	76	78	00	82	82	82	83	82	80	82	81	80	78	80	80	78	78	78	90	77	79	80	81	79		80.6
	MIN	66	65	69	71	72	74	71	70	66	67	68	69	66	68	66	68	72	69	68	69	72	69	68	60	72	66	65	64	63	65		67.9
LUALUALEI 804	MAX	86	86	88	88	85	85	83	84	85	86	84	86	83	84	84	85	85	84	83	84	83	83	81	85	82	80	83	82	84	82		84.1
	MIN	66	66	64	68	73	73	72	75	65	70	67	65	67	68	70	67	67	67	67	68	73	71	73	70	68	66	66	63	68	69		68.4
MAKAPUU POINT 724	MAX	83	83	83	86	78	85	79	84	81	87	81	81	84	80	80	81	78	77	75	77	76	77	74	76	77	75	76	77	74	75		79.3
	MIN	68	64	69	74	67	70	66	74	66	74	67	71	71	65	71	72	71	67	67	71	66	73	72	71	71	65	66	70	72	73		69.5
OPAEULA 870	MAX	84	83	87	85	80	77	76	79	79	84	83	80	76	77	84	84	85	84	80	80	79	78	79	80	76	75	83	82	78	85		80.7
	MIN	66	60	65	65	65	65	66	68	61	64	63	65	65	66	68	64	65	63	62	63	66	66	62	65	61	60	61	63	63	58		63.8
PRI WAHIAWA 820.2	MAX	88	90	89	82	86	81	79	80	82	83	84	81	78	83	87	84	87	83	80	80	81	77	79	83	80	78	84	83	82	83		82.6
	MIN	61	60	58		63	68	67	66	60	59	62	63	61	62	64	64	62	61	60	62	66	62	67	63	63	60	58	59	64	67		62.5
WAIALUA 847	MAX	84	84	87	88	85	85	81	80	83	84	87	83	80	83	77	83	88	85	81	83	84	83	81	82	82	78	82	83	81	81		82.9
	MIN	62	64	61	63	69	71	66	67	68	62	64	67	63	65	67	69	65	61	62	62	64	65	64	67	61	59	60	59	62	64		64.1
WAIKIKI 717.2	MAX	88	87	89	86	81	84	84		85	86	87	86	85	84	84	87	86	84	83	82	83	84	83	83	81	83	82	83	86	84		84.5
	MIN	66	65	67	72	73	66	69		65	65	69	70	67	66	67	69	73	72	66	72	73	69	72	68	68	66	61	61	67	70		68.1
WAIMANALO EXP FARM	MAX	85	86	85	84	84	83	78	82	83	85	84	83	83	84	78	82	83	81	82	80	80	81	80	80	82	82	81	82	83	84		82.3
	MIN	68	66	74	73	72	72	72	68	63	65	67	68	66	68	68	67	73	72	71	70	72	70	70	69	70	68	65	62	63	66		68.6
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	80	82	84	82	82	82	79	82	80	83	83	83	80	83	81	84	83	81	79	80	78	81	80	80	79	79	79	78	78	78		80.8
	MIN	66	63	66	72	70	69	69	70	69	66	67	70	70	71	66	68	69	71	70	70	70	68	69	69	70	70	67	65	65	70		68.5
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	79		78	78	79	76	77	79		80	78	77	77	80	79		80	78	79	77	78	76	80	73	74	76					77.7
	MIN	64		63	65	64	63	64	62		64	62	62	63	65	65		64	64	65	63	64	61	60	65	63	62					63.3
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	66	71	64	65	71	67	58	59	58	64	63	65	66	61	58	62	68	67	68	61	63	61	59	59	60	59	61	63	63	62		63.1
	MIN	42	40	44	50	50	46	45	45	38	42	43	43	43	45	43	48	53	46	47	46	45	42	44	45	43	41	43	42	45	46		44.5
HANA AIRPORT 355	MAX	84	84	85	85	83	84	78	79	81	82	83	82	82	83	83	83	83	83	81	81	81	78	78	81	81	81	80	80	81	80		81.7
	MIN	64	68	70	69	72	70	70	68	70	66	68	68	67	71	69	72	70	66	66	68	69	66	68	70	66	68	62	65	65	65		67.9
KAANAPALI AIRPORT	MAX	84		85	84	83	85		84	84	83	83					84	83	84		82		81	81	81	83	78	80	80	81	81		82.5
	MIN	66		63	68	67	70		65	65	65	65	68		68	65	66	68	66	69	72	69	67	70	71	66	66	62	62	62	70		66.7
KAHULUI W8 AP 398	MAX	85	89	88	86	85	82	82	86	85	87	84	85	84	85	88	86	87	84	83	83	84	85	81	83	84	83	82	80	82	84		84.4
	MIN	63	61	61	64	73	71	71	61	60	61	61	62	64	67	66	65	65	62	68	72	67	63	70	72	62	68	59	59	69	68		65.2
KAILUA 446	MAX	80	80	80	79	78	77	74	74	75	78	77	80	78	79	80	85	80	78	78	77	76	75	75	75	76	76	76	76	77	77		77.5
	MIN	64	62	63	67	68	67	66	65	61	61	65	63	63	64	65	65	65	67	64	67	67	65	65	65	66	63	60	60	64	66		64.4
KEAWAKAPU BEACH 260.2	MAX																																
	MIN																																
KULA SANATORIUM 267	MAX	74	74	75	75	75	79	75	73	72	76	76	74	72	71	76	75	72	72	70	70	72	72	71	69	70	71	70	69	72	73		72.8
	MIN	57	56	57	57	58	60	58	56	56	57	56	57	59	59	58	58	56	55	56	58	57	56	57	58	55	54	52	53	55	59		56.7
LAHAINA 361	MAX	85	86	85	84	86	90	87	86	85	85	85	84	84	83	85	85	85	85	83	83	85	85	84	80	84	85	85	84	84	85		84.7
	MIN	67	66	69	68	71	71	70	66	65	65	67	67	68	68	66	67	68	66	67	68	69	66	69	66	66	65	63	63	68	69		67.1

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DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WAILUKU 392	MAX			84	83	82	82	81			84	82	81	80	85			83	81	80	80	80			81	80	79						
	MIN			66	73	72	70	71			65	65	67	68	69			67	70	69	70	71			70	69	68						
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	83	84	83	82	82	84	74	76	79	82	81	82	82	82	83	82	81	79	81	81	80	81	79	79	80	80	79	80	80	77		80.6
	MIN	64	66	69	69	69	69	66	66	63	64	64	66	64	65	65	64	67	65	66	68	69	67	68	68	66	65	63	62	65	66		65.9
HAWAII VOLCNS NP HQ 54	MAX	74	75	76	67	68	66	62	61	66	65	65	70	71	73	70	72	71	65	68	70	68	63	63	65	66	63	68	70	72	74		68.2
	MIN	45	54	57	55	55	56	54	54	55	48	50	49	47	58	52	52	56	52	53	53	55	53	54	52	52	52	48	50	57	53		52.7
HILO W8 AIRPORT 87	MAX	83	85	83	83	82	80	80	80	82	82	83	84	82	83	84	82	81	82	80	80	77	77	78	81	80	80	80	82	82	86		81.5
	MIN	65	65	67	67	67	70	68	66	65	63	63	64	62	66	65	64	67	63	65	66	65	64	66	65	63	64	61	63	68	63		65.0
KAINALIU 73.2	MAX	79	81	80	80	80	80	82	79	78	78	76	80	76	80	81	81	82	79	73	79	79	81	80	74	78	77	77	77	78	79		78.8
	MIN	60	62	61	65	63	63	62	62	60	61	60	60	60	62	63	62	62	62	62	61	63	62	64	63	60	61	60	58	63	61		61.6
KAMUELA 192.2	MAX	78	80	80	73	73	78	69	70	73	78	74	78	78	80	80	82	74	74	73	74	70	72	78	75	72	72	72	74	75	72		75.0
	MIN	48	51	60	57	60	60	56	58	47	50	50	50	50	50	49	50	53	57	54	57	57	58	58	57	58	58	57	48	51	58		54.2
KAMUELA AIRPORT 191	MAX	78	80	79	75	74	77	74	72	72	78	75	76	74	78	79	80	75	75	76	73	75	75	80	71		72	70	75	76	72		75.4
	MIN	45	50	52	58	48		57	55	48	44	47	48	51	47	49	50	51	51	50	53	49	54	50	59		52	47	51	47	35		50.6
KEAAU 92	MAX	83	83	83	82	83	82	79	82	82	82	82	84	84	84	85	85	85	83	82	82	81	78	78	78	80	79	79	82	83	83		81.9
	MIN	65	65	65	67	66	65	66	63	63	63	63	64	61	62	65	65	65	64	64	64	66	65	67	65	62	63	62	64	64	65		64.3
KEALAKEKUA 26.2	MAX	78	82	81	81	80	81	80	80	79	79	75	81	79	79	82	81	82	81	78	80	79	81	80	76	76	79	80	79	79	81		79.6
	MIN	62	63	62	66	64	64	63	64	60	61	61	62	62	63	64	65	63	63	62	63	63	62	65	62	62	62	61	59	63	64		62.7
KOHALA MISSION 175.1	MAX	81	82	81	82	79	80	74	75		81	80	81	80	82	82	81	80	79	79	79	79	79	77	75	79	79	78	79	80	74		79.2
	MIN	65	65	69	69	71	69	66	66		63	64	63	64	65	66	67	67	68	68	69	69	67	63	69	68	68	63	64	64	62		66.2
KONA AIRPORT 68.3	MAX	84	86	86	84	86	84	83	84	83	83	81	82	83	82	84	85	85	83	84	84	81	82	83	80	81	82	81	82	81	84		83.1
	MIN	67	62	63	62	62	65	65	69	63	63	64	65	66	64	64	64	64	68	67	66	68	68	70	68	68	68	68	66	66	64		65.6
KULANI CAMP 79	MAX	71	70	71	66	65	61	61	58		60	61	62	62	70	59	69	69			65	57	60	62	64	65	60		58	66	69		63.9
	MIN	41	43	49	46	42	47	49	41		42	42	42	44	51	48	46	47			42	52	45	43	42	46	57		48	45	48		45.7
MAUNA KEA BEACH 98	MAX	84	87	84	85	89	92	92	92	84	83	85	84	89	83	84	84	86	85	91	91	90	83	83	81	85	84	87	84	82	85		85.9
	MIN	68	70	71	75	75	75	73	71	68	68	69	69	69	70	70	70	73	71	70	72	73	69	74	69	69	69	68	66	73	71		70.6
MAUNA LOA SLOPE 08S	MAX	58	61	60	56	53	57	50	48	51	53	53	53	49	52	54	54	59	57	53	53	49	50	42	50	48	50	54	56	52	58		53.1
	MIN	37	43	44	41	39	37	35	34	33	34	36	33	34	33	35	37	41	38	37	38	37	35	35	32	28	31	36	38	40	37		36.3
MOUNTAIN VIEW 91	MAX	82	81	81	76	76	75	70	69	74	73	78	79	78	78	78	81	79	76	79	76	77	70	71	71	74	73	81	81	81	81		76.6
	MIN	56	61	66	63	62	62	62	61	63	57	56	58	57	56	61	58	59	59	58	60	59	58	61	58	57	59	52	52	52	52		58.5
NAALEHU 14	MAX	81	82	82	80	81	84	76	76	80	80	79	81	79	81	81	81	81	77	79	80	80	80	79	79	79	77	77	77	82	82		79.8
	MIN	66	64	64	70	72	71	69	69	76	74	66	67	63	66	66	67	67	65	64	68	67	67	67	67	67	66	66	66	63	63		67.1
OOKALA 223	MAX	81	82	82	79	82	82	73	74	78	79	80	80	79	82	76	78	81	80	80	80	79	79	79	74	80	79	79	80	81	76		79.1
	MIN	66	66	66	70	70	72	67	67	68	63	67	68	66	67	66	68	67	68	68	66	69	68	69	69	67	67	65	65	69	69		67.4
OPIHIHALE 2 24.1	MAX	79	79	78	78	79	76	77	79	75	78	77	77	76	80	78	77	76	74	79	77	78	75	74	74	77	74	76	75	76	80		76.9
	MIN	60	60	61	61	60	61	61	58	58	59	59	58	58	58	61	63	63	59	59	59	60	61	61	58	58	58	57	57	60	60		59.5
PAHALA 21	MAX	82	82	83	78	82	87	80	80	79	75	78	81	79	81	78	80	80	75	80	83	79	75	73	75	81	76	80	82	85	85		79.8
	MIN	60	61	62	64	64	70	66	65	63	60	61	61	60	60	63	62	61	62	61	62	65	61	64	63	61	61	60	61	66	68		62.6
UPOLU POINT USCG 159.2	MAX	85	83	83	83	82	83	79	78	82	84	82	84	86	82	84	84	82	82	81	80	81	81	80	80	81	80	80	80	82	78		81.7
	MIN	73	70	72	72	71	69	68	70	64	68	70	69	70	70	72	72	70	71	69	70	70	69	72	72	69	69	68	68	70	70		69.9

EVAPORATION AND WIND

Station		Day Of Month																													Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE W8 AP 1020.1	EVAP	.18	.18	.22	.26	.26	.27	.44	.39	.25	.39	.24	.11	-	.17	-	.18	.23	.23	.15	.13	.18	.26	.07	.23	.18	.36	.12	.21	.15	.17		6.658
	WIND	72	68	63	153	258	287	297	285	114	56	68	68	52	59	68	87	101	110	103	75	192	196	142	145	148	127	102	76	58	71		3701
	MAX	86	85	88	87	83	83	84	81	86	76	88	85	69	85	76	88	88	87	82	77	79	84	76	79	83	83	81	82	82	83		82.5
	MIN	63	63	65	67	70	69	67	67	66	66	68	65	64	64	68	69	70	71	68	67	67	68	68	71	65	65	61	60	60	62		66.1
* * * ISLAND OF OAHU																																	
HONOLULU 08SERV 702.2	EVAP	.19	.22	.19	.20	.29	.23	.25	.30	.20	.26	.13	.17	-	.16	-	.18	.15	.17	.16	.16	.10	.18	.12	.08	.17	.10	.15	.15	.15	.14		5.308
	WIND	18	20	17	24	62	64	51	48	28	18	24	10	13	23	25	14	19	17	32	24	5	21	13	14	14	10	15	12	19	17		691
	MAX	92	91	91	90	86	87	90	85	89	90	88	82	81	90	74	91	90	86	83	83	82	89	83	81	85	79	83	85	86	87		86.0
	MIN	66	65	64	66	68	69	67	66	65	66	68	68	66	66	68	68	67	65	65	68	67	67	68	66	65	62	61	62	64	65		65.9

See Reference Notes Following Station Index

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE †	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	00	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1111 A	0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985 A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934 A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1	0465	00	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927 A	0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110 A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006 A	1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	1170	00	KAWAIHAU	1	22 05	159 28	1218				5	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050 A	2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131 A	2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092 A	3104	01	KAWAIHOU	1	22 08	159 23	630		7A			LIHUE PLANTATION
KAPAA STABLES 1104 A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112 A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134 A	4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135 A	4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	00	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936 A	4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994 A	4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137 A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935 A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LINUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020 A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1 R	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965 A	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M+M 1001	6097	00	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPP CROSS 1083 A	6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145 A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		5	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051 A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	6893	00	KIHUE	2	22 04	159 26	650				5	LIHUE PLTN CO LTD
RH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013 A	8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004 A	8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	00	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930 A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990 A	8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LINUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	730		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKANA SUGAR CO LTD
WAILUA KAI 1065 A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931 A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	00	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761 A	0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807 A	0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8	0438	00	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			EWA PLANTATION CO
HALAWA SHAFT 77192	0964	00	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881 A	1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2 A	1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WBFC 703 R	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A		C	H S P A EXP STATION
KAALAKEI 724.6	2269	00	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883 A	2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912 A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	00	KOOLAUPOKO	1	21 19	157 41	1380					HAWAII NATIONAL GUARD
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838 A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	00	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773 A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841 A	3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2A	3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3	3825	00	KOOLAUPOKO	1	21 40	158 00	1050					HAWAII NATIONAL GUARD
KEMOO CAMP 8 855 A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL A	5650	04	WAIANAE	4	21 29	158 08	1500					U S NAVY
LULUKU	5655	00	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LOM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796 A	5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2 A	5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	00	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	00	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870 A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1	7933	00	EWA	3	21 25	157 58	240				C	JAMES MUMENO
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2 A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884 A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709 A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	00	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	00	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713 A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863 A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837 A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847 A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798 A	9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 803 A	9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836 A	9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 865 A	9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE RESV. 723.2 A	9495	02	HONOLULU	2	21 18	157 45	170					BOARD OF WTR SUPPLY
WAILUPE VLY SCH 723.6	9500	00	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892 A	9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750 A	9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563 A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6	3046	00	MOLOKAI	1	21 04	156 52	60				C	W.J. CARSTEN
KAUNAKAKAI 536 A	3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	00	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551 A	4394	01	MOLOKAI	1	21 12	157 12	560					MOLOKAI RANCH, LTD.
KUALAPUU 534 A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511 A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A			LIBBY MCNEILL & LIBBY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES

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ISLAND OF MOLOKAI												
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
WAIKOLU 540 A	9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690 A	3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
KAUMALAPAU HARBOR 658 A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672 A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684 A	5301	01	LANAINA	1	20 49	156 53	3370				C	ST. DIV OF FISH & GAME
MAHANA 694 A	5704	01	LANAINA	1	20 53	156 55	1430					DOLE COMPANY
MALAUEA 676 A	6012	01	LANAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685 A	9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252 A	0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	00	LANAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	0790	00	LAHAINA	4	20 57	156 36	2980				S	MAUI PINEAPPLE CO.
HALEAKALA B E S 434 A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432 A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LOCKHEED SP & MIS DIV
HALEHAKU 492.2	1016	00	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
NALIIMAILE 423 A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI PINEAPPLE CO.
NAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARPY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	NANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5 A	1552	02	MAKAWAO	2	20 45	156 13	6930					NALEAKALA NATL PARK RGS
HONOKOHAU 480 A	1882	04	LAHAINA	4	20 58	156 36	870					MAUI PINEAPPLE CO
HONOKOHUA 493 A	1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI PINEAPPLE CO
HONOLUA FLD 49 494	1914	00	LAHAINA	4	21 01	156 38	125				S	MAUI PINEAPPLE CO
HONOMANU GULCH 341 A	1935	01	MAKAWAO	1	20 47	156 14	6280					NALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	00	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	00	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374 A	2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WB AP 398 R	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	U S WEATHER BUPEAU
KAILIILI 436 A	2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRP CO LTD
KAUAULA INTAKE 375 A	3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	00	HANA	2	20 39	156 08	1020				C	KAUPO RANCN
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346 A	4091	01	HANA	1	20 50	156 10	980					E MAUI IRP CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KINEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	4887	00	LAHAINA	4	20 54	156 35	5788				S	MAUI PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETN WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LANAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442 A	5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466 A	5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	00	LAHAINA	4	20 59	156 37	1290				S	MAUI PINEAPPLE CO
NAKALELE -FLD 60-497 A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI PINEAPPLE COMPANY
OLINDA 332 A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATEP DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377 A	7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A			E MAUI IRP CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2 A	7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
PAUWELA 490 A	7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEPOT PINEAPPLE CO.
POHAKEA BRIDGE 307.2 A	8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343 A	8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472 A	8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	8553	00	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3 A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333 A	8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301 A	8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A			ULUPALAKUA RCH CO LTD
WAHIKULI 364 A	8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484 A	9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482 A	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449 A	9332	01	HANA	1	20 52	156 12	1200					E MAUI IPR CO LTD
WAIKAMOI DAM 336 A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAP			MAUI COUNTY WTR DEPT
WAIKAPU 390 A	9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	00	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256 A	9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75 A	0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1 A	0190	01	N KOHALA	1	20 10	155 43	1870					KOHALA DITCH CO LTD
EAST HONOKANE 183.2 A	0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52 A	1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117 A	1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111 A	1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PAPK
HAWI 168 A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87 R	1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	U S WEATHER BUREAU
HOLUALOA 70 A	1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68 A	1562	04	N KONA	4	19 37	155 59	14		7A			VAPIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1 A	1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71 A	2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72 A	2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1 A	2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12 A	2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29 A	2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	00	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMADA NO 2 5 A	3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36 A	3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5 A	3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193 A	3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	00	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2 A	4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6 A	4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTPY
KIPA 89.2 A	4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1 A	4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176 A	4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAP CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196 A	4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206 A	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76 A	5018	05	N HILO	5	19 35	155 27	8300				C	U S WEATHER BUREAU
KULANI SCHOOL SITE 78 A	5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	00	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MANUKA 2 A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDOLE HOLUALOA 68.1 A	6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA

STATION INDEX

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
MIDDLE PEN 147.1	A 6270	01	M KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			MUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6800	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIMIMALE 2 24.1	7169	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 81.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7209	01	MAHUKONA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULILO 221	7312	01	MAHUKONA	1	20 03	155 22	800		7A			MAHUKONA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7849	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO. INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1790					STATE DIV OF FORESTRY
POHAKULOA 107	A 8068	02	MAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
PUAKO 95.1	A 8180	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIHE 120	A 8392	01	MAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	MAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	M KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU MALI 113	A 8515	01	MAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUHAU 167	A 8540	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A			DON WINTERS
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	OILLINGHAM RANCH INC
SADDLE ROAD I 84	A 8590	02	S HILO	2	19 42	155 12	2340				C	BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	300					HAWAIIAN RANCH COMPANY
S POINT TRACKING STA	8679	03	KAU	3	18 57	155 41	305				C	CLOSED 11/6/69
UMIKOA 118	8780	01	MAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHIMICMI KANESHIRO
WAIKAHONOULA 178.6	9350	00	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH
CLOSED STATIONS ISLAND OF HAWAII												
S POINT TRACKING STA A	8679	03	KAU	3	18 57	155 41	30				C	CLOSED 11/6/69

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES. Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\+ And also on an earlier date or dates.

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data.

\# Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column in for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

E Adjusted to a full month

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-3/5/70-890

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

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HAWAII
DECEMBER 1969
Volume 65 No. 12

CLIMATOLOGICAL DATA

Station		Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days: Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days: .10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																								
ANAHOLA 1111	A														5.17	- .23			.0	0				
KANALOHULUHULU 1075		65.2	50.1	57.7		70	22	40	6+		0	0	0	0	7.17		1.70	28	.0	0		12	5	3
KAPAA STABLES 1104	A														5.52				.0	0				
KILAUEA FIELD 17 1135	A														12.33	2.82			.0	0				
KILAUEA POINT 1133		78.3	66.5	72.4		85	1	48	28		0	0	0	0	6.06		1.73	27	.0	0		14	3	1
KOLOA 936	A														7.24	- .38			.0	0				
LIHUE WB AP 1020.1	R	78.7	67.9	73.3	I.1	84	3	60	21		0	0	0	0	5.91	.73	3.65	27	.0	0		8	1	1
MANA 1026		81.9	64.0	73.0	.9	87	30+	58	17		0	0	0	0	.65	- 2.65	.31	28	.0	0		3	0	0
N WAILUA OITCH 1051	A														10.62				.0	0				
PH WAININHA 1115															23.45	9.86	6.20	28	.0	0		14	10	8
PUEHU RIDGE 1040															1.17		.37	28	.0	0		4	0	0
WAHIAWA 930	A														1.13	- 3.36			.0	0				0
WAIAHI LOWER 1054		75.6	60.4	68.0		80	27+	52	21		0	0	0	0	7.87		1.82	27	.0	0		12	5	3
WAIMEA 947															.21	- 3.14	.19	28	.0	0		1	0	0
ISLAND				68.9											2.75				.0					
* * * ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															.31		.19	28	.0	0		1	0	0
HONOLULU WBFO 703	R	83.9	69.1	76.5	2.9	87	7+	62	22		0	0	0	0	1.34	- 1.65	.29	29+	.0	0		6	0	0
KAHUKU 912	A		64.7M	M	.6			56	23+			0	0	0	6.47	2.19			.0	0				
KANEOHE MAUKA 781		78.1	66.6	72.4	.3	82	10+	60	23		0	0	0	0	7.93	1.08	3.03	28	.0	0		13	3	2
KOOLAU OAM 833															V26.36		3.05	25	.0	0				
LUALUALEI 804		81.4	65.7	73.6		84	2+	58	22+		0	0	0	0	.91				.0	0			0	0
MAKAPUU POINT 724		75.7	65.9	70.8		81	4+	52	28		0	0	0	0	4.60	1.29	2.40	28	.0	0		6	2	1
NUUANU RES 4 783															6.50	- 4.56	2.74	27	.0	0		10	4	1
OPAEULA 870	A	M	M	M		83	3+	55	29+		0	0	0	0	7.99	1.02			.0	0				
PALOLO VALLEY 718															I8.02	4.71	5.38	27	.0	0		15	6	5
PRI WAHIAWA 820.2	A	79.7	60.4	70.1		84	21+	52	23+		0	0	0	0	2.50				.0	0				
PUNALUU 884	A														8.65				.0	0				
WAHIAWA OAM 863	A														2.86				.0	0				0
WAIAHOLE 837	A														I4.33	.04			.0	0				
WAIALUA 847	A	80.2	61.4	70.8	- .4	87	1	53	22		0	0	0	0	2.30	- 1.64	.71	4	.0	0		6	2	0
WAIKIKI 717.2		82.1M	66.4M	74.3M		86	1	57	22		0	0	0	0	1.49		.32	25	.0	0			0	0
WAIMANALO EXP FARM		80.1	65.8	73.0		84	23	58	23		0	0	0	0	5.37		3.36	28	.0	0		7	1	1
WAIPAHU 750	A														1.39	- 2.15			.0	0				0
ISLAND				72.8											5.47				.0					
* * * ISLAND OF MOLOKAI																								
KUALAPUU 534	A														3.47	- .79			.0	0				
MAPULEHU 542															V 5.70		.80	27	.0	0				0
MAUNALOA 511	A														1.74	- 1.76			.0	0				
MOLOKAI AP 524		78.4	66.4	72.4		83	3+	59	22		0	0	0	0	3.05		I.58	25	.0	0		6	1	1
ISLAND				72.4											2.75				.0					
* * * ISLAND OF LANAI																								
LANAI CITY 672	A	75.2M	61.6M	68.4M	I.9	83	3	57	24+		0	0	0	0	4.73	1.01			.0	0				
ISLAND				68.4											4.73				.0					
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														20.53	I0.07	8.95	29	.0	0		13	8	5
HALEAKALA RS 338		60.8	43.4	52.1		69	23	37	15+		0	0	0	0	16.01		8.50	29	.0	0			5	4
HANA AIRPORT 355		79.5M	65.0M	72.3M		83	2	60	23+		0	0	0	0			I.86	25	.0	0				
HONOKOHUA 493	A														5.76	1.11			.0	0				
KAANAPALI AIRPORT		80.7M	67.1M	73.9M		85	3	59	22		0	0	0	0	2.21		.91	29	.0	0		7	1	0
KAHULUI WB AP 398	R	80.9	64.4	72.7	.0	86	1	53	23+		0	0	0	0	5.81	3.11	2.81	28	.0	0		8	3	1
KAILUA 446		75.8	62.4	69.1	.2	83	22+	55	23		0	0	0	0	I5.75	3.90	4.43	29	.0	0		16	8	5
KEANAE 346	A														28.01	5.69			.0	0				
KIPAHULU 258															11.32	.41	3.91	25	.0	0		12	9	3
KULA SANATORIUM 267		70.7	54.7	62.7	.4	76	1	49	23+		0	0	0	0	1.73	- 1.30	.62	29	.0	0		6	1	0
LAHAINA 361		83.2	65.2	74.2		87	9+	59	21		0	0	0	0	1.46	- .83	I.38	28	.0	0		1	1	1
PAIA 406															7.09	2.87	3.61	29	.0	0		10	2	1
WAILUKU 392		M	M	M		86	22+	58	22		0	0	0	0	V 3.97				.0	0				
ISLAND				68.1											I0.51				.0					
* * * ISLAND OF HAWAII																								
HAINA 214		78.3	63.9	71.1	.9	83	3+	60	22		0	0	0	0	5.83	- 1.87	1.59	5	.0	0		9	3	2
HAWAII VOLCNS NP HQ 54		68.3	50.8	59.7	1.0	75	22	40	21		0	0	0	0	3.76	- 6.38	.92	26	.0	0		8	3	0
HILO WB AIRPORT 87	R	79.8	63.2	71.5	.0	85	4	57	21+		0	0	0	0	8.10	- 7.08	I.80	14	.0	0		15	4	2
HUEHUE 92.1	A														3.04	.68			.0	0				
KAINALIU 73.2		77.2	60.0	68.6		82	1	55	22+		0	0	0	0	3.69	.68	.77	7	.0	0		0	4	0

See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

Continued

Station	Temperature													Precipitation									
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191	71.9M	48.1M	60.0M		78	2+	40	22		0	0	0	0	.49		.10	29+	.0	0		3	0	0
KEAAU 92	80.4	62.9	71.7	.7	85	4+	59	31+		0	0	0	0	7.39	- 8.78	2.00	25	.0	0		14	4	3
KEALAKEKUA 26.2	77.5	61.0	69.3		82	2+	56	22		0	0	0	0	2.79		1.10	5	.0	0		5	2	1
KONA AIRPORT 68.3	82.1	63.3	72.7		86	1	60	22+		0	0	0	0	1.09		.75	5	.0	0		3	1	0
KUKUIHAELE HIC 199														6.49	- 2.73	2.21	5	.0	0		8	4	3
KULANI CAMP 79	64.9	43.4	54.2		78	22	34	24		0	0	0	0	8.47		1.72	26	.0	0		11	4	4
MAUNA KEA BEACH 98	M	M	M								0	0	0	.18		.08	6+	.0	0		0	0	0
PAHALA 21	79.5	60.8	70.2	.1	84	25	55	22+		0	0	0	0	1.63	- 2.80	.77	5	.0	0		3	1	0
POHAKULOA 107 A														.26				.0	0			0	0
PUAKO 95.1 A														.24		.11	7	.0	0		1	0	0
PUU WAAWAA 94.1 A														.81	- .89	.50	30	.0	0		2	1	0
UMIKOA 118														7.47	- 4.02	2.55	5	.0	0				
WAIAKEA SCO 88.2														9.00		2.04	26	.0	0		13	6	3
ISLAND			66.9											3.93				.0					

EXTREMES

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 6TH AT MAKAHUENA POINT 940.1, KAUAI

LOWEST TEMPERATURE: 29° ON THE 27TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 45.60 AT PUOHOKAMOA 2 343, MAUI

LEAST TOTAL PRECIPITATION: .17 AT KONA VILLAGE 93.8, HAWAII

GREATEST ONE-DAY PRECIPITATION: 9.50 ON THE 30TH AT WAIKOLU 540, MOLOKAI

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
							Standard of Time 150TH MERIDIAN												
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	20	1.1	5.8	20	NW	19	86	80	68	85	1	6	11	2	2	0	22	45	5.6
HONOLULU, OAHU, WBFC	4	7.3	11.4	35	NE	25	76	75	57	71	9	4	6	0	0	0	19	60	4.6
KAHULUI, MAUI, WB AIRPORT	5	7.1	10.4	29	NE	25+	83	87	62	82	5	5	5	2	0	1	18	69	3.9
LIHUE, KAUAI, WB AIRPORT	3	7.7	11.9	32	NE	28+	81	81	69	79	4	8	7	0	0	1	20	47	5.5

See Reference Notes Following Station Index

HAWAII - DECEMBER 1969

SPECIAL WEATHER SUMMARY

December's weather was highlighted by the most destructive surf in recent history, but it included also damaging winds and frost, and continued widespread dry weather.

Early on November 30 a large low pressure area drifting slowly eastward about 1,500 miles northwest of the Hawaiian Islands, and carrying winds of 45 to 60 miles an hour in its southwest quadrant, sent unusually heavy ocean swell crashing against exposed coasts of all the islands, demolishing seaboard homes and parks, eroding beaches and shorelines, and leaving behind one death, a number of injuries, and damages totalling over $1.5 million.

The storm swell reached Kauai, northernmost of the Hawaiian Islands, during the afternoon of December 1 with waves reported up to 30 feet high. At Polihale Beach Park on the north shore, beach facilities and the access road were damaged and the beach severely eroded. On Kauai's west coast, seas sweeping nearly 600 feet inland washed 1 foot deep into 15 homes under construction just north of Kokole Point, and left spash marks under the eaves of several located 350 feet inland and about 18-1/2 feet above sea level.

The waves struck Oahu soon after dark on the 1st, pounding hardest at the well populated 12-mile stretch of northwest-facing coastline between Waialua Bay and Kawela Bay. Sunset Beach was battered worst, and its Ke Iki Road residential area virtually wiped out when waves, some of them estimated at 40 to 50 feet in height, and described as the largest in local memory, topped a heavily built-on 25-foot rise, demolishing 14 homes, crushing some, smashing others against utility poles and one another, and -- of a few -- leaving nothing behind but scattered appliances and timbers. Eight other houses and 6 cottages and their contents suffered lesser damage in the same onslaught. In the dip inland of the rise, water up to 6 feet deep inundated 12 homes and a number of parked cars. Losses in the Ke Iki Road area alone amounted to about $535,000 -- almost half the $1.27 million total for all Oahu.

In the small boat harbor at Haleiwa, boulders were torn from the breakwater and groin and 16 boats varying in length from 15 to 52 feet, beached, battered, or sunk. Water covered an adjoining parking lot (3 to 4 feet above sea level) to a depth of 5 feet and heavily damaged six businesses and four automobiles in the area. Losses in and about the boat harbor were estimated at $324,000.

Haleiwa Beach Park, on the north side of Waialua Bay, was heaped with tons of sand eroded from nearby beaches.

At Kawela Bay surf rushing inland to an elevation of 22 feet above sea level destroyed 2 homes and damaged 12 others, 2 of them severely. A 10-year-old girl was seriously injured and several other persons narrowly escaped drowning when their homes were mauled by the waves.

At Pupukea Beach Park, waves swept 750 feet inland, and along the Pupukea-Waimea coast damaged 24 houses and left swash marks and debris on the ground at elevations of up to about 35 feet above sea level. Elsewhere on Oahu's north coast, about 40 homes on Waialua Bay, and 25 in the Waialee and Kawailoa Beach areas, sustained minor damage from water and undermining.

On Molokai on December 1 and 2, 40-foot surf destroyed a concrete mooring dolphin and deposited huge boulders in the Kalaupapa barge harbor, making it unsafe. Damage was estimated at about $25,000.

Hawaii Island was shielded by the islands to the northwest except for the extreme southwest coast where early on the 2d the village of Milolii was struck by 20-foot waves which destroyed its entire fishing fleet, consisting of nine fishing canoes and two skiffs, damaged four homes and the only grocery store and washed out 1,200 feet of beach road -- for a damage total of $85,000.

On December 4 high surf from a second North Pacific storm added to previous damage, particularly at Kauai's Polihale Beach Park and at Oahu's Mokuleia Beach.

Total damage to all islands from both surf episodes was estimated at $1.51 million. One person drowned when he was swept away while watching the waves at Oahu's Waimea Bay.

Meanwhile, the swell rolled into the Southern Hemisphere, reaching heights of 13 to 20 feet at the Gilbert and Ellice Islands and 10 feet at Rarotonga, South Cook Islands and at Tahiti, and causing slight damage at Samoa and the North Cook Islands.

Several other weather events of interest occurred during December.

Early on the morning of the 21st an unaccustomed light frost covered Hawaii Island's Volcano area and slightly damaged plantings of squash, lettuce, and cabbage. At Hawaii Volcanoes National Park (elevation 3,971 feet), the minimum temperature dropped to 40°, only 1° higher than the lowest previous December reading and 3° above the lowest temperature ever noted there in 55 years of record. Other temperature readings in the

area were as low as 25°, but the exposure of the thermometers makes these values questionable.

On the 25th at Lahaina, Maui, a dock-side shed collapsed, apparently struck by the remnants of a large dust devil observed near it just minutes before. Of seven persons in the shed at the time, two were injured seriously and five slightly. The dust devil is suspected to have been one of several seen moving slowly seaward (westward) near the Lahaina Shopping Center. Winds in the area were easterly trades with occasional gusts to 40 miles an hour.

On the 27th a cold front brought Kauai and Oahu gale-force northerly winds and scattered heavy showers. Gusts which reached 46 miles an hour at Barking Sands, Kauai, and 47 miles an hour at the Kaneohe Marine Corps Air Station on windward Oahu did scattered damage to powerlines and trees.

On the 8th a small dark cone-shaped funnel cloud accompanied by a heavy rainshower was spotted moving westward about 20 miles northwest of the Hilo Weather Bureau Office. The funnel moved from the ocean to the land, did not reach the ground, and lasted about 7 minutes.

Rainfall continued deficient over much of the State. On Kauai, Oahu, Molokai, and Maui, only windward (eastern and northeastern) sections received average or above rainfall for the month, while leeward coastal sections reported well below half their monthly means. On the Big Island only North Kona and a few gages in Kohala received more rainfall than the December average. The remainder of the island was dry and many places particularly in the Kau area (the southeastern section) had well below half of their normal December rainfall.

At the stations listed below, December was the 11th successive month of deficient rainfall.

Kaunakakai, Molokai
Maunaloa, Molokai
Waiakeakua, Lanai
Lahaina, Maui
Kapapala Ranch, Hawaii
Manuka, Hawaii
Moaula, Hawaii

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DAILY PRECIPITATION

HAWAII
DECEMBER 1969

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																
ANAHOLA 1111	A	5.17		1.02	.02	.05		*	*	.21		.13	.10	.06	*	*	.12					*	*	.10		.30	*	*	*	*	2.85	.10	.11
BRYDESWOOD STA 985	A	3.39	.07	.01		.02		*	*	.40	.06	.16	.04	.08	*	*	.03				T	*	*	.02		.55	*	*	*	*	1.35	.59	.01
EAST LAWAI 934	A	5.35	.02			.02		*	*	.55	.14	.56	.10	.14	*	*	.04					*	*	.03		.93	*	*	*	*	2.65	.15	.02
ELEELE 927	A	.68						*	*	.06	T	.06	.02	T							T	*	*	.02		.05	*	*	*	*	.31	.16	
HALAULA 1110	A	5.57	.02	.04		.02		*	*	.21		.14	.09	.18	*	*	.02					*	*	.12		.29	*	*	*	*	4.33	.03	.08
HALENANAHO 1006	A	8.13	.14					*	*	.97	.05	.49	.14	.27	*	*	.08									.90	*	*	*	*	4.64	.52	*
HUKIPO 945		.40				.10																								.30		
ILIILIULA INTAKE 1050	A	9.97	.01			.01		*	*	1.18	.09	.29	.35	.34	*	*	.45	.03	.01		.01	*	*	.11		1.25	*	*	*	*	5.59	.25	
INTAKE WAINIHA PC 1086	A	26.47	*	*	*	*	*	*	*	2.05	*	*	*	2.7	*	*	*	*	*	*	.82	*	*	.85	*	6.00	2.35	*	*	7.60	4.10	*	*
KALIHIWAI RES 1131	A	14.15	.01	1.72	.15	.15	.01	*	*	.90	.11	.59	.23	.28	*	*	.10	.02			.54	*	*	.28		1.50	*	1.37	*	*	5.81	.24	.14
KANALOHULUHULU 1075		7.17	.06	.11		.91				.09	.08	.18	.05	.13	.02	.03					1.05	.68		.02		.32	.12		.21	1.70	1.28	.10	.03
KANEHA RESERVOIR 1092	A	11.44		.06		.04		*	*	.32	.26	.42	.21	.32	*	*	.14					*	*	.38		1.07	*	*	*	*	7.74	.34	.14
KAPAA STABLES 1104	A	5.52	.04					*	*	.19	.06	.12	.07	.2	*	*	.06									.50	*	*	*	*	3.79	.30	.19
KEALIA 1112	A	4.90	.03	.01				*	*	.34		.18	.07	.11	*	*	.01									.34	*	*	*	*	3.68	.07	.06
KEKAHA 944		.38				.02															.01									.35		
KILAUEA 1134	A	9.92		1.25	.04	.06		*	*	.73	.15	.15	.19	.2	*	*	.07	.01			.31	*	*	.12		.92	*	.33	*	*	5.24	.10	.05
KILAUEA FIELD 17 1135	A	12.33	.02	1.72	.18	.14	.02	*	*	.77	.12	.45	.26	.32	*	*	.05				.01	*	*	.68		1.17	*	.44	*	*	5.70	.20	.08
KILAUEA POINT 1133		6.06	.67		.08				.38		.08	.35	.14	.24	.09					.20	.10				.65	.26	.02	.31	1.73	.39	.12	.25
KOLO 1033		.90				.17															.16									.57		
KOLOA 936	A	7.24	.13					*	*	.53	.20	.74	.12	.34	*	*	.03					*	*	.01		.98	*	*	*	*	4.02	.14	*
KOLOA MAUKA 994	A	6.82	.11			.05		*	*	.78	.07	.34	.16	.16	*	*	.08					*	*	.02		.83	*	*	*	*	4.10	.12	*
KOLOKO RES 1137	A	10.78	.01	1.55		.11		*	*	.82	.05	.47	.26	.20	*	*	.05					*	*	.73		1.04	*	.48	*	*	4.62	.29	.10
KUKUIULA 935	A	4.07	.03			.04		*	*	.25	.11	.30	.08	.21	*	*	.02					*	*	.04	T	.60	*	*	*	*	2.11	.07	.01
LIHUE VARIETY STA		7.80						*	*	.18		.26	.23	.19	.01											.76	.50	.22	2.70	2.20	.22	.18	.15
LIHUE 1020	A	8.28	.10					*	*	.70	.01	.44	.08	.37												.40	*	*	*	*	5.97	.15	.06
LIHUE WB AP 1020.1	R	5.91	.01		T				.01	.21	.29	.01	.32	.02	.01			T			T				.07	.32	T	.06	3.65	.10	.44	.05	.34
HAKAHUENA POINT 940.1		2.97	.18			.02				.14	.10	.22	.06	.01		.01					.05					.22	.48		.72	.76			
MAKAWELI 965	A	.49							.01		.03	.03								.04	.02								.15	.04		.17	
HANA 1026		.65				.12				.02				.07							.13									.31			
HOMIHI UPR CROSS 1083	A	3.02	.07		.34	.07			.13	.47	.40	.20	.20	.20	.13	.07					.74					*	*	*	*	*	*	*	
HOLOAA 1145	A	6.11		1.00	.14	.05		*	*	.22		.13	.07	.12								*	*	.63		.43	*	*	*	*	3.10	.13	.07
MOUNT WAIALEALE 1047		29.78							.83	4.49	1.42	.39	.91	.55	.51	.04	.04	.04							.83	5.79	1.14	5.16	2.52	1.34	.63	.08	3.07
NIU RIDGE 1035		.98				.18															.29			.03		.05				.43			
N WAILUA DITCH 1051	A	10.62	.20					*	*	1.20	.60	.66	.40	.30	*	*	.20									1.00	*	*	*	*	5.36	.50	.20
PH WAINIHA 1115		23.45		1.70	T	.40			T	1.80	.19	.37	.27	.63	.05	.06					.02	1.26	.01			3.30	3.00		.88	6.20	1.88	1.40	.03
PRINCEVILLE RANCH 1117		13.81	.02	2.21	.10	.02				1.17	.11	.17	.32	.22							.37					1.31	2.75	.87	.57	*	2.97	.35	.28
PUEHU RIDGE 1040		1.17	.03			.28															.27			.15		.07				.37			
PUHI 1013	A	9.88	.09					*	*	.58	.03	.58	.16	.41	*	*	.03									.53	*	*	*	*	6.84	.63	*
RESERVOIR 6 1004	A	7.44	.14			.02		*	*	.82	.04	.48	.10	.28	*	*	.05					*	*	.02		.67	*	*	*	*	4.70	.12	*
WAHIAWA 930	A	1.13	T			.02		*	*	.08	.02	.06	.05	.01								*	*	.05		.15	*	*	*	*	.56	.12	.01
WAHIAWA MOUNTAIN 990	A	9.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.50
WAIAHI LOWER 1054		7.87							.02	.94	.26	.43	.16	.25	.05	*										.99	1.13	1.25	1.82	.13	.17	.20	.07
WAIAHI UPPER 1052		9.15				.01		.01	.03	1.08	.07	.15	.47	.29	.25	.05										1.21	2.41	.99	1.26	.43	.12	.22	.10
WAIAWA 943		.43				.06																								.37			
WAILUA KAI 1065	A	4.34	.04					*	*	.08		.13	.10	.05												.43	*	*	*	*	3.25	.21	.05
WAIMEA 947		.21				.02																								.19			
WEST LAWAI 931	A	3.52	.05			.06		*	*	.29	.11	.36	.05	.26	*	*	.02					*	*	.06		.66	*	*	*	*	1.52	.06	.02
* * * ISLAND OF OAHU																																
AIEA FIELD 625 761	A	3.52	.07			.05		*	*	.05	.13	.09	.09		*	*	.14	.01	T			*	*	.04		.10	*	1.10	*	*	1.30	.36	
BERETANIA PUMPING STA		3.60	.06			.25			.26	.05	.05						.07							T		.04	1.78	.06			.76	.20	.01
CAMP 84 807	A	2.33	.20	*	*	.29	*	*	*	.03	*	*	.13	*	*	*	.01					*	*	.11	*	*	.57	*	*	*	.73	.26	*
CHURCH COLLEGE LAIE		20.10			.15	.25	.50	.10	.30	.20	.10	.40	.40	.25			.10						.25	.10	.30	2.10	2.20	2.40	2.10	2.05	2.20	1.20	2.50
COCONUT ISLAND 840.1		3.67	.10	.01	.01	.28	.05	.04		.03	.09				.01	.05						.02				.20	.82	*	.20	1.35	.14	.22	.05
EWA PLANTATION 741		.69	.18		T	T					T	.02										.01				.02	.04		T	.12	.14	.16	
HELEHANO INTAKE 881	A	9.18	*	*	*	.51	*	*	*	.47	*	*	.62	*	*	*	*	*	*	*	*	*	*	.28	*	*	*	*	*	*	7.30	*	*
HOKULOA 725.2	A	3.39	*	*	*	*	*	*	*	*	.66	*	*	*	*	*	.03	*	*	*	*	*	*	.17	*	*	*	*	*	1.28	*	*	1.25
HONOLULU OBSERV 702.2		.31	T		T	T		.02		.03																T	.04	T		.19	.01	.02	
HONOLULU WBFC 703	R	1.34	.29		.05	.04			T	T	.10		T	T	T		T									.21	.17	T	.02	.15	.29	T	T
HONOLULU SUBSTA 704		2.73	.03		.24	.02				.02	.15	.05						.07					.02		.06	*	*	*	*	*	*	*	2.10
H S P A EXP STA 707		4.41	.10		.01	.23				.18	.03	.29	T			.09										.16	1.55	.07		.32	1.12	.24	
KAHANA 883	A	27.36	1.00	*	*	*	*	*	*	2.04	*	*	*	*			2.18	*	*	*	*	*	*	.24	*	*	*	*	*	*	20.60	*	1.30
KAHUKU 912	A	6.47	.03			.54	.01	*	*	.46	.08	.06	.02	.03	*	*	.07						*	.13		.44	*	1.34	*	*	2.94	.18	.14
KAILUA FIRE STA 791.3	V	7.73	.15	.03	.24	.29	.01		.01	T	.04	.12	T	.03			.04	T			.01	.03				.06	.65	.04	.03	2.32	.78	.55	.10
KALIHI RES SITE 777		12.62	.34			.04			.40	.12	.18	.02	.02	.02	.16	.04										1.98	.92	.32	4.84	1.66	1.04	.18	.36
KANEOHE HAUKA 781		7.93	.43			.21	.14	.03	.13	.06	.12	.06				.07		.04								.08	1.65	.13	.19	3.03	.95	.39	.10
KANEOHE RANCH 838	A	5.20	T	T	.14	.65	.04	T	*	.12	.03	.18	T	T	T	*	.10	T	T					T		.24	*	.97	*	*	2.45	.35	.02
KAPALAHA 773	A	5.43									.08	.30														.10	*	*	*	*	4.60	.35	
KAWAIHAPAI 841	A	2.77	.13			1.25	.02	*	*	.28	.03															.09	*	.18	*	*	.62	.02	.01
KAWAI IKI INTAKE 880.2	A	6.00	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KEHOO CAMP 8 855	A	3.80	.11			.96	.02	*	*	.17	.07	.05	.01	*	*	*	.11					*	*	.47		.17	*	.36	*	*	1.24	.01	.05
KOOLAU OAH 833		26.36	.11	*	*	.22	*	*	.12	.62	.37	.20	.28	*	.06	.32	.10	*	.02	.02	*	.22	*	*	*	1.10	3.05	.44	.95	2.25	1.20	.39	.03
LUALUALEI 804		.91	.12	.01		.21		*	*	.02	.02		.01					*	*	*	*	*	*	*	*	*	*	*	*	*	.42	.04	.01
LUALUALEI WTR TUNNEL	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									*	*	*	*	*	*	*	*
LUNALILO HOME 724.2		3.62	.15								.20		*	.12	.05												*	.50		*	2.50	.10	
MAKAHA KAI 796	A	1.04	.01																		.06					.06			.27	.50	.14		
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	.69	.42	
MAKAPUU POINT 724		4.60	.03		.01	.25						.12			.05	.02						.05				.02	.47	.03					
MANOA 712		10.65	.17			.23			.07	.41	.15	.38		.03	.26	.12						.04				.17	3.80	.22	.20	1.73	2.11	.54	.02
MANOA TUNNEL 2 716		17.38	.20		.02	.22	.02		.30	.24	.58	.06	.02	.50	.24	.12	.04									2.40	2.14	.80	3.88	2.16	2.30	.32	.82
MOANALUA 770	V	10.23	.34		.03	.09			.04	.03	.02	.14	.02		T	.02						.02			.08	*	1.60	.14	.11	.35	.52	.13	
NUUANU RES 4 783		6.50	.04		.20	.06			.12	.06	.06			.04	.06							.02	.02			.52	.66	.38	2.74	.42	.82	.10	.18
NUUANU RESERVOIR 5 775	A	11.43	.23	*	.10	.43		*	*	.24	.16	.37						.20				*	*			.10	*	*	*	*	8.53	.71	.07
OPAEULA 870	A	7.99	.02			1.00	.05	*	*	.26	.23	.12	.08	*	*	*	.29			*	*	*	*	.28	*	.28	*	2.00	*	*	3.36	*	.16
PALOLO VALLEY 718		18.02	.32		.02	.26	.02		.42	.44	.60	.02		.40	.16		.08									1.92	1.94	.22	5.38	2.76	2.44	.36	.26
PAUOA FLATS 784		19.60	.24	.02		.14	.04	*	*	*	*	*	*	2.44	.12	.04	.06	.02		.02						2.76	1.98	1.32	4.72	1.48	2.62	.38	1.20
PORTLOCK ROAD 724.4	V	9.31	.07	.04	.01	.04	.16	.09	.03	.28	.14	.03	.11	.08	.02	.02	.03	.12	.06	.03	.02	.03	.05	.04	.02	.09	.02	.03	.80	3.21	.10	.03	.04
PRI WAHIAWA 820.2	A	2.50	.08		T	.14		*	*	.05	.16	.10	.04		*	*	.04									.11	*	*	*	*	1.60	.18	
PUNALUU 884	A	8.65	.07			1.10	.26	*	*	.69	.20	.15	.15	.04	*	*	.06					*	*	.21		.63	*	2.46	*	*	2.15	.38	.10
PUNCHBOWL CRATER 709	A	4.39	.10	.01	.01	.10	.01	.01	.01	.08	.05	.22	.02	.01	.10	.01	.01	.02								.08	.05	.06	1.95	.26	.98	.24	
ST STEPHENS SEM 788		9.08	.43	T	.02	.67	.03	.05		.09	.03	.18	T		.19	.06		.07				.15				.05	1.19	.09	.30	4.04	.96	.23	.12
TANTALUS 2 780.5		12.69	.15			.32			.06	.24	.13	.47	.03		.20	.12						.03				.04	5.02	.49	.65	.63	2.26	.74	.04
UNIV OF HAWAII 713	A	4.16	.27	T	.01	.16	T	*	*	.29	.13	.25	T		*	*	.35	*	*	*	*	*	*	.05		.15	*	*	*	*	2.25	.24	
WAHIAWA OAH 863	A	2.86	.27	*	.01	.55	.02	*	*	.07	.07	.06	.01	*	*	*	.14					*	*	.20	*	.14	*	.50	*	*	.74	.08	*
WAIAHOLE 837	A	14.33	.32			.46	.59	*	*	.82	.51	.27			*	*	.32							.14		.59	*	4.60	*	*	4.79	.68	.24
WAIALAE KAHALA 715		3.53	.25	T	T	.02	T		*	1.10	.04	.12	T		.09	.02	T					.01				*	.68	T	.03	.65	.43	.09	T
WAILALUA 847	A	2.30	.05	T		.71	.01			.08	.06	.02	T			.02						.05				.21	.22	*	.10	.50	.24	T	.03
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAIANAE MAUKA 803	A	10.63	*	*	.42	*	*	.16	*	*	*	.50	*	*	.42	*	*	*	.01	*	*	.43	*	*	*	1.75	*	*	.12	*	*	*	6.82
WAIAWA 836	A	18.63	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.12	*	*	*	7.60	*	*	9.00	*	1.28
WAIKANE 885	A	21.18	.69	*	*	*	*	*	*	1.42	*	*	*	*	*	*	1.06	*	*	*	.01	T		T	T	.04	.32	T	.01	.22	.30	.03	.01
WAIKIKI 717.2		1.49	.30	.01		T			*	.10	.02	.07		*	.05	T		*	*	.19						*	*	*	*	*	5.00	.10	
WAILUPE RESV. 723.2	A	5.99	.29	*	*	.10	*	*	*	*	*	*	.31	*	*	*						.04				.05	.37	.01	.01	3.36	.24	.05	.11
WAIMANALO EXP FARM		5.37	.32		T	.41	.02			.25	.04	.02				.07																	
WAIMEA 892	A	6.32	T			1.17	.04	*	*	.13	.04	.07	.02	T	*	*	.27		T			*	*	.12		.62	*	1.27	*	*	2.30	.11	.16
WAIPAHU 750	A	1.39	.08			.01		*	*	.04	.01	.02	.02		*	*	.01		.02					T		.05	*	.30	*	*	.63	.22	
WILHELMINA RISE 721		5.84	.32	.02	.06	.08				.48	.18	.02		.20	.08											.38	.90	.02	.84	1.24	.94	.06	

See Reference Notes Following Station Index

DAILY PRECIPITATION

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF MOLOKAI																																
KALAUPAPA 563	A	3.46	*	*	*	*	*	.05	.14	*	.19	*	*	.31	*	.35	*	*	*	*	*	*	*	*	*	*	1.36	*	*	*	.12	.26	.68
MAUNAKAKAI 536	A	.54																													.54		
KEONELELE PENS 551	A	1.90																													1.90		
KUALAPUU 534	A	3.47				.02	.13	*	*	.02	.12	.03	.06		*	*	1.04	.04			.01	*	*	.16			*	*	*	*	1.70	.13	.01
MAPULEHU 542	V	5.70	*	*	.19	.35	*	.02	.12	.17	.08	.18	*	*	.16	*	.10	*	*	.02	.04	*	*	*	*	.71	.29	.27	.80	.20	.28	.21	.34
MAUNALOA 511	A	1.74	.14			.06					.16	.07			*	*	.07	.03			.19									*	1.00	.02	
MOLOKAI AP 524		3.05				.03	.08		T	T	.18	T	T		.13	.18	.02	.01			.05	.08					1.58	.03		.44	.16	.08	
PUUOHOKU RANCH 542.1		4.54	T	T			1.70	.05	.15	.21	.03	T		.25	.07	.02	.04				.25	T			T	.50	.10	.07	.08	.25	.28	.26	.23
WAIKOLU 540	A	17.74	1.19							1.15							4.42							1.48							9.50	
* * * ISLAND OF LANAI																																
KANEPUU 690	A	4.82	*	*	*	1.66	*	*	*	*	*	*	.07								*	*	*	*	*	*	*	.06	*	*	*	3.03
KAUMALAPAU HARBOR 658	A	.75				.18		*	*	.02																	*	*	*	*	.34	.21	
LANAI CITY 672	A	4.73	.22			.12	.52	T	*	.39			.02		T	*	.10					.05					*	.16	T	*	2.61	.52	.02
LANAIHALE 684	A	1.34	*	*	*	*	*	*	*	.32	*	*	*	*	.10	*	*	*	*	*	*	.12	*	*	*	*	*	*	.80	*	*	*	*
MAHANA 694	A	2.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.14
MALAUEA 676	A	.66	*	*	*	.60																								*	*	*	.06
WAIAKEAKUA 685	A	1.66	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.44	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.22
* * * ISLAND OF MAUI																																
AUWAHI-252	A	2.06	*	*	*	*	*	*	*	1.08	*	*	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	.13	*	.65	*	*	.15	*
HALEAKALA 8 E S 434	A	20.53					.67	.03	.02	.02	.07	.30	.87		.49	1.97	.30					.53	.04				2.34	1.18	.16	2.28	8.95	.30	.01
HALEAKALA RANCH 432	A	11.26	*	*	*	*	.65	*	*	*	*	.13	.38	*	*	1.41	.15	*	*	*	*	.46	*	*	*	*	*	1.40	*	1.51	5.17	*	*
HALEAKALA RS 338		16.01	T				T		T	T	.14	.30	.60				.23	*	*	.01	*	.22		*	*	T	1.88	2.33	.16	1.32	8.50	.32	
HALEAKALA SUMMIT 338.4	V	7.14	.48		T							T	.05														*	*	*	*	5.70	.10	.03
HALIIMAILE 423	A	9.04					.45	*	*	.02	.05	.18	.19			*	1.16					*	*	.11			*	1.05	*	*	4.05	1.66	.12
HAMAKUAPOKO 485		9.17					.28	.08	.09	.19	.11	.35	.51	T		.93	.17	T				.02					.70	.64	.11	.60	3.37	.90	.12
HANA 354		9.15	.25				1.03		*	.10	.35	.20	*	*	*	*	1.18					.68	*	.02			*	2.52	.66	*	1.24	.85	.07
HANA AIRPORT 355		-	.07				.72	.02	T	.10	.16	.25	.92	.02	.19	-	.05	.01			T	.35	T	T	T		1.86	1.05	.52	.85	.49	.19	T
MANAMULI 281		6.91			T		.80	.10	.07	.05	.10	.35	.45		.10	.38	.05										2.80	.10	1.41		.15		
HOLUA CABIN 259.5	A	12.52	*	*	*	*	*	*	*	*	*	.72	*	*	*	*	*	*	*	*	1.30	*	*	*	*	*	*	*	*	*	*	*	10.50
HONOKOHAU 480	A	15.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.00
HONOKOHUA 493	A	5.76	.12				.06	*	*	.30	.10	.15	.65		*	*	.60										*	1.53	*	*	1.32	.78	.15
HONOMANU GULCH 341	A	27.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	27.00
KAANAPALI AIRPORT		2.21				T				.04		.04	.12		.15		.17										.36	.03		.25	.91	.04	.10
KAHOMA INTAKE 374	A	18.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.60
KAHULUI WB AP 398	R	5.81				.67	T		T	.03	.15	.32		T	.30	.18	T				.07					.04	.27	T	.01	2.81	.88		.08
KAILIILI 436	A	29.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	29.50
KAILUA 446		15.75					1.27	.02	.17	.16	.42	.48	.78		.28	1.43	.31	.01				.20	.01			.07	1.99	1.79	.83	.59	4.43	.48	.03
KAUAULA INTAKE 375	A	2.91									*	*	*		*	*	.62	*	*	*	*	*	*	.05	*	*	*	*	*	2.24	*	*	*
KEAMUA 410		6.10	.04				.29					.10	.03		.15	.32	.06					.07					.29	.25	.02	.23	3.65	.48	.12
KEANAE 346	A	28.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	28.01
KEAWAKAPU BEACH 260.2		.27				.01	.13																								.13		
KIHEI 311		2.04				.01	1.76								.02		.01														.22	.02	
KIPAHULU 258		11.32	.31				.79			.54	.08	.32	.86				.21										3.91	.54	.52	1.25	1.08	.86	.05
KULA HEIGHTS 323.2		2.87					.36										.04						.40				.08			.30	1.55	.14	
KULA SANATORIUM 267		1.73	.02				.20	.04														.20						.04	.04	.20	.62	.13	.24
LAHAINA 361		1.45																										.07		1.38		.01	
LAUNIUPOKO INTAKE 376	A	8.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.60
LAUNIUPOKO VILLAGE 372	A	.98				.03							.02															.08		.70		.15	
LUPI UPPER 442	A	21.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	21.60
MAHINAHINA 466	A	7.88	.08				.16			.30		.20	.58		.40	.74	.05											2.15		2.78		.14	.30
NAKALELE -FLO 60-497	A	4.09	*	*	*	*	*	*	*	.33	*	*	*	*	*	*	.89	*	*	*	*	*	*	.02	*	*	*	*	*	*	2.08	*	.77
OLINDA 332	A	13.16	1.03				.32	*	*	.01	.06	*	.53	T	*	*	.69	T			*	*	*	.63			*	2.46	*		7.21	.20	*	
OLOWALU 296		.60				.20																						.05		.35			
OLOWALU GULCH 377	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00
PAAKEA 350		27.44					1.75	.06	.28	.23	.60	.61	1.16	.04	.60	3.04	1.06	.06	*	*	*	.40				.06	4.50	3.00	1.60	1.73	5.23	.96	.47
PAIA 406		7.09	T				.47		.01	.05	.06	.18	.40	T	.04	.62	.25					.03					.43	.29	.01	.32	3.61	.23	.09
PANIOLIHULU 259.2	A	11.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.80	*
PAUWELA 490	A	10.52	.86				.37	*	*	.32	.42	.36	.62		*	*	1.06									.01	*	*	*	*	6.05	.33	.12
POHAKEA BRIDGE 307.2	A	1.13	*	*	*	.17	.05	*	*	*	*	.01	.02	*	.05	.18	.03	*	*	*	*	*	*	*	*	*	*	.03	*	.11	.44	.04	*
POLIPOLI SPRINGS 267.2	A	3.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.40	*
PUOHOKAMOA 2 343	A	45.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	45.60
PUU KUKUI MAKAI 472	A	16.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.20
PUUNENE 396		3.13				T	.44				.02	.05	.17		.02		.40							.01			*	*	*	*	2.00	.02	
SPRECKELSVILLE 400.2		6.21					.78	.01			.05	.11	.31	T	.04	.43	.06					.10					.21	.20		.25	3.20	.44	.02
TWIN GATES 261.3	A	.80	*	*	*	.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
UKULELE 333	A	18.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.00
UKUMEHAME 301	A	.91				.30																						.15		.46			
ULUPALAKUA RANCH 250	V	3.33	.06	*	*	.07	.51	*	*	.06	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*	*	*	.11	*	*	.15	*	2.11
WAHIKULI 364	A	2.13					.26						.02		.04													.22		1.55		.04	
WAIEHU CAMP 484	A	4.44	*	.02	*	*	.14	.14	*	.01	.06	.14	.37	*	.17	.48	.06	*	*	*	*	.15	*	*	*	*	*	.58	*	.42	1.62	.08	*
WAIHEE VALLEY 482	A	5.33	*	.12	.02	*	.30	.20	*	.07	.04	.16	.30	*	.24	.54	.03	*	*	*	*	.20	*	*	*	*	*	.50	*	.67	1.80	.14	*
WAIKAMOI 449	A	24.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.48
WAIKAMOI OAM 336	A	37.47	2.82	.01	.01	T	.70	*	*	.47	.88	*	2.54	.01	*	*	4.49	.04	.02	T	T	*	*	.72		.02	*	5.78	*	*	18.42	.54	*
WAIKAPU 390	A	3.09	*	*	*	.08	.02	*	*	*	*	.04	.15	*	.10	.38	.08	*	*	*	*	.07	*	*	*	*	*	.30	*	.30	1.47	.10	*
WAILUKU 392	V	3.97	.26	*	.01	.02	.45	*	*	.06	.03	.03	.18		*	*	.59							.09		*	*	*	*		1.96	.05	
WAIOPAI RANCH 256	A	2.36		*	*	*	.44	*	*	.24																	*	1.33	*	*	.35	*		*
* * * ISLAND OF HAWAII																																
AMUA UMI 75	A	1.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.35
AWINI 182.1	A	11.70					3.89	*	*	1.40	.11	*	*	.06	*	*	4.28					*	*	1.14	.02								
EAST HONOKANE 183.2	A	11.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						11.75	*
HAINA 214		5.83	.02				1.59			.07	.07	.16	.20	.04	.84	1.44	.34	.06				.09				.05	.08	.04	.06	.22	.33	.13	
MAKALAU 142		11.03					1.91			.34	.16	.19	.17	.36	.01	2.80	.44	.11				.38				.05	.08	1.59	.72	.40	1.00	.30	.01
MALEMAUMAU 52	A	1.41	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.41
MALEPIULA 117	A	2.29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.29
MALEPOHAKU 111	A	1.58								.06							T									*	*	1.36		.09	.03	.02	
MAWAII VOLCNS NP HQ 54		3.76	T	.01		.06	.05	.06	.28	.25	.52	.23	.08	.02		.10	.21	.08		T	*	.01			T		.09	.92	.74	.02	.03		T
MAWI 168	A	4.59		.01			1.72	*	*	.07	.08	.02	.34	.01	*	*	1.43	.01				*		.02					.09	.02	.59	.29	
HILO WB AIRPORT 87	R	8.10				T	.02	.04	.29	.58	.25	.18	.01		.12	1.80	.41	.01			.16	.05				.12	.91	1.70	.10	.43	.38	.07	.47
HOLUALOA 70	A	2.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.40	*	*
HOLUALOA BEACH 68	A	2.73	.11				1.46				.14																			.22		.60		
HONAUNAU 27		3.29	.10	.02		.04	1.10	.62	.04	.02	.02	.03		.06	.03		.01	.02	.05	.04			.05	.03	.05	.40	.10	.05	.03	.20	.10	.08	
HONOMINA 137		13.03					2.68			.33	.12	.20	.32	.31		.05	2.40	.60	.06	.02		.56				.08	.07	1.44	.99	.52	1.66	.62	
HONOKANE 181.1	A	12.74	.07				4.78	*	*	.39	.09	.17	1.05		*	*	5.37	.04				*	*	.75	.03								
HONOMU MAUKA 138		16.28					1.95	.03	.78	.25	.89	.44	.45			2.10	1.48	.10	.01			1.08				.05	.15	2.80	.92	.22	1.54	1.02	.02
HONUAULA 71	A	.83	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	*
HUALALAI 72	A	.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
HUEHUE 92.1	A	3.04	*	*	*	*	2.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.26	*	*	*	*	.56
KAALA IKI 12	A	1.67				.03	1.34	T																			.02	.15	*	*	.07	.01	.05
KAAWALOA 29	A	2.78		.04	*	T	*	*	*	2.20	.02	*	.03								*	*	*	T						*	.45	.04	T
KAINALIU 73.2		3.69		.02			.60	.61	.77	.01	.05	.07									T			T						.61	.43	.03	.49
KALAPANA NU 1 67.8		2.25	.01			.07	.10	T	.18	.31	.05	.06	.02				.01					T	T							.72	.72		
KAMAOA NO 2 5	A	.83	*	*	*	*	*	.79	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	*	*	*	*	*	*	*	*	*	*	*
KAMUELA 192.2		3.10	.06				1.83	.02	.02	.04	.02	.04	.05		.07	.32	.38					.06								.06	.08	.05	
KAMUELA AIRPORT 191		.49	.01		T	T		.01	T	.02	T	T	.02		.10	.08	.10	T			T	.02							.01	.10	.02	T
KAPAPALA RANCH 76	A	1.03	*	*	*	*	*	*	*	.84	*	*	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	*	*	*	.17	*	*	*
KAPOHO LANDING 93.5	A	5.33	*	*	*	*	.52	*	*	*	*	*	*	1.64	*	*	*	*	*	*	.91	*	*	*	*	*	*	*	*	*	*	2.26

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII
DECEMBER 1969

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		8.90					.02	.05	.58	.13	.60	.30	.20			1.25	1.01	.09								.02	.25	2.00	1.97	.12	.15	.10	.06
KAWAINUI LOWER 193	A	20.10	*	*	*	*	9.98	*	*	*	*	*	*	.95	*	*	*	*	*	*	7.76									*	*	*	1.41
KEAAU 92		7.39							.37	.11	.36	.18	.20		.10	1.32	.53	.08				.15					2.00	.24	1.18	.33	.19	.02	.03
KEALAKEKUA 26.2		2.79	T	.04		T	1.10	.95	.17		.03	.04	.03			T								T			T	T		.25	.04	.13	.01
KEHENA 181.2	A	9.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.35	*
KIOLAKAA A & F 6	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	1.25	1.05	.19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00
KIPA 89.2	A	9.52					.06		.68	.42	.68	.44	.14				1.24	.01				.03					.26	2.12	1.59	.09	.29	.09	.14
KOHALA 179.1	A	5.54		.01			1.94	*	*	.05	.04	.03	.34	.01	*	*	2.44	.02				*	*	.21	.01		*	.01	*	*	1.17	.47	*
KOHALA MAULILI 176	A	5.90		.01			1.80	*	*	.06	.09	.07	.38	.01	*	*	*	T				.11		.05	.01		*	.01	*	*	.81	.14	
KOHALA MISSION 175.1		6.02	T				2.19		.02	.10	.04	.08	.38	T	.11	.97	.43	T							T			.03	T	.81	.34	.41	T
KOIAWE LOWER 196	A	12.77	*	*	*	*	7.35	*	*	*	*	*	*	.52	*	*	*	*	*	*	3.77								*	*	*	.93
KONA AIRPORT 68.3		1.09					.75	T	.05	T	.10	T																				.13
KONA VILLAGE 93.8		.17					.05																						.12	.06		
KUKAIAU 222		8.59					2.10		.10	.11	.04	.22	.43	T	.60	1.55	1.31		T			.89	T			T	.09	.36	.51	.08	.10	.10	T
KUKUIHAELE MIC 199		6.49	.01				2.21		.09	.06		.01	.17		.80	1.14	1.12	.02											.26	.20	.40	
KUKUIHAELE MILL 206	A	5.87					2.25	*	*	.09	.01	.04	.18		*	*	2.35	.01				*	*	.02			*	*	*	*	.69	.23	
KULANI CAMP 79		8.47				.02	.09	.05	.30	.08	.37	.40	.23			.09	.45	.13	.02								.20	1.72	1.40	1.44	1.47		.01
KULANI MAUKA 76	A	1.62							.07	.15	.09	.07	.02			.10										.03	.10	.89	.02	.07	.01		
KULANI SCHOOL SITE 78	A	6.99	*	*	*	*	*	.10	*	*	*	*	*	*	2.79	*	*	*	*	*	*	2.00	*	*	*	*	*	2.10	*	*	*	*	*
LANIHAU 68.2		4.31					1.91	1.12	.15		.31																			.40	.42		
MANUKA 2	A	.72	.04				.40	*	*	T		.07								.12											.09	*	
MAUNA KEA BEACH 98		.18	T				.08	.08		.01																				.01		
MAUNA LOA SLOPE 085		.32								.12																			.04		.13		
MIDDLE HOLUALOA 68.1	A	2.11	.27	*	*	.76	*	*	*	*	.13	*	*	*	*	*	*	*	*	*	*	*	*	*	.61	*	*	*	*	*	.34	*	*
MIDDLE PEN 147.1	A	.70	*	*	*	*	.52	*	*	.18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MOAULA 18	A	1.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.30
MOUNTAIN VIEW 91		8.24					.03		.62	.19	.63	.49	.18		.08	1.15	.46	.04									2.31	.29	1.18	.32	.21	.02	.04
NAALEHU 14	A	1.89	.01			.06	1.25																				*	.23	*	*	.33	T	.01
NAPOOPOO 28	A	1.96	.31	*	*	*	*	*	*	1.17	*	*	*	*	*	*	.07									T	*	*	*	*	.41	*	*
NAULU FOREST 38.6		2.96				.02	.50	.02	.21	.03	.09	.14	.01				.05										*	*	*	*	1.37		.52
NIULII 179	A	5.70					1.80	*	*	.02	.07	.09	.39		*	*	1.58	.01				*	*	.10					*	1.10	.54		
OOKALA 223		10.57	T				1.75		.18	.14	.19	.20	.34		.42	1.78	1.70	.02	T			.56				T	.22	.83	.88	.09	.61	.66	T
OPIHIHALE 2 24.1		2.19	T		.18	.04	.59	.28	T	.01	.26	.05	T							.04	T		.01	.18	T	T	.03	.11	.41	T		
ORCHID LAND EST 91.5	A	6.83	*	*	*	*	.10	*	*	*	*	*	*	1.18	*	*	*	*	*	*	2.09	*	*	*	*	*	*	*	*	*	*	*	3.46
PAAUHAU 217		4.90	.01				1.08		.05	.04	.01	.13	.12	.02	.62	1.25	.44					.13				.04	.10	.04	.07	.05	.57	.13	
PAAVILO 221		8.85	T				3.51		.03	.07	.01	.19	.30	T	.65	1.28	1.02	.06	T			1.00	T				.07	.22	.28	.05	.07	.04	T
PAHALA 21		1.63		.01		.01	.77		.02										.07									.03	.21		.43	.08	
PAHOA 65		7.74			.02		.06		.74	.22	.56	.26	.30	.14	.09	1.32	.53	.16				.43					1.09	.13	1.06	.29	.19	.11	.04
PAKAO 37	A	1.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.60
PAPAIKOU 144.1		11.77					.17	T	.87	.07	.22	.19	.30			1.38	1.07	.05				.42	.01			.01	.22	3.24	1.05	.87	.94	.52	.17
PAPAIKOU MAUKA 140.1		11.68					.06	.01	.64	.27	.76	.33	.36			1.55	1.72	.10				.14					.23	3.00	1.39	.24	.48	.32	.08
PEPEEKEO MAKAI 144		10.73	.01				2.58	.02	.38	.08	.47	.11	.17		.05	1.31	.22	.09	.01			.45	.04				.18	1.44	.75	.32	1.40	.01	.64
PIIHONUA 89	A	13.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.60
POHAKULOA 107	A	.26	*	*	*	*	*	*	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.13	*	*	.08	*	*
PUAKO 95.1	A	.24					.05	.02	.11	T				.01															T		.05		
PUU KIHE 120	A	1.87	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.87
PUU LAAU 102.1	A	.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.86
PUU LEHUA 73	A	1.69	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.69
PUU MALI 113	A	1.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.10
PUUOKUMAU 167	--A	5.01		.02			1.15	*	*	.07	.06	.05	.41	.01	*	*	2.58	.01	.01			*	*	.07	.02				*	.33	.22	*	*
PUU OO 82		4.03					.26		.24	.09	.14	.03				.04	.24	.17									.08	1.53	1.03	T	.13		.05
PUU WAAWAA 94.1	A	.81				.07	.04		.03												.02									.15	.50	
SADDLE ROAD 1 84	A	10.53	*	*	*	*	.33	*	*	*	*	*	*	2.95	*	*	*	*	*	*	2.15	*	*	*	*	*	*	*	*	*	*	*	5.10
SOUTH POINT CORRAL 3	A	1.16	*	*	*	*	*	.51	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.35	.30	*	*	*	*
UMIKOA 118		7.47				.01	2.55			.09		.08	.08		.40		2.00	*	.09	.01		.64	.02			.02	*	.45	*	*	*	1.03		
UPOLU POINT USCG 159.2		2.27		T			.13			.02	.01		.11		.62	.35	.29										.45	.14	.15			
WAIAKEA SCS 88.2		9.00						.02	.64	.22	.75	.40	.20			1.41	.82	.11								T	.23	2.04	1.56	.07	.08	.22	.23

PRECIPITATION MEASURED IN STORAGE GAGES

Station	Obser-vation date	Amount since last obs.	Snow on ground
ISLAND OF KAUAI			
HANALEI TUNNEL 1053	1969		
	JAN 31	5.20	
	FEB 28	34.60	
	MAR 31	9.00	
	APR 30	22.00	
	MAY 31	13.00	
	JUNE 30	6.80	
	JULY 31	10.60	
	AUG 31	7.40	
	SEPT 30	9.00	
	OCT 31	5.00	
	NOV 30	11.20	
	DEC 31	18.00	
TOTAL		151.80	
N WAILUA RIVER 1055	1969		
	JAN 31	4.40	
	FEB 28	14.00	
	MAR 31	6.00	
	APR 30	16.00	
	MAY 31	8.00	
	JUNE 30	6.40	
	JULY 31	11.40	
	AUG 31	6.00	
	SEPT 30	16.00	
	OCT 31	5.40	
	NOV 30	12.60	
	DEC 31	10.00	
TOTAL		116.20	

Station	Obser-vation date	Amount since last obs.	Snow on ground
ISLAND OF MAUI			
HAELAAU 477	1969		
	FEB 3	23.60	
	MARCH 2	26.40	
	MARCH 30	23.40	
	MAY 3	25.40	
	MAY 30	6.00	
	JUNE 29	3.80	
	AUG 3	17.60	
	AUG 31	25.00	
	SEPT 28	10.00	
	NOV 2	6.20	
	NOV 29	3.60	
	JAN 4	38.00	
TOTAL		209.00	
	1969		
HONOLUA FLO 49 494	FEB 3	12.32	
	MARCH 3	6.82	
	MARCH 31	4.56	
	MAY 2	2.97	
	JUNE 2	1.46	
	JUNE 30	1.86	
	JULY 31	3.69	
	SEPT 2	5.60	
	SEPT 30	2.44	
	NOV 1	1.13	
	DEC 1	1.14	
	DEC 31	5.61	
TOTAL		49.60	
KUKUI 380	1969		
	FEB 3	53.00	
	MARCH 2	65.00	
	MARCH 30	53.00	
	MAY 3	57.00	
	MAY 30	19.00	
	JUNE 29	16.00	
	AUG 3	43.00	
	AUG 31	100.00	
	SEPT 28	29.00	
	NOV 2	28.00	
	NOV 29	10.00	
	JAN 4	60.00	
TOTAL		533.00	

Station	Obser-vation date	Amount since last obs.	Snow on ground
ISLAND OF MAUI (CONTINUED)			
MOKUPEA 475	1969		
	FEB 3	15.18	
	MARCH 3	18.00	
	MARCH 31	18.67	
	MAY 3	11.88	
	MAY 30	4.72	
	JUNE 30	3.76	
	AUG 3	7.94	
	AUG 31	14.23	
	SEPT 30	4.55	
	NOV 2	3.08	
	DEC 1	2.96	
	DEC 31	13.52	
TOTAL		118.49	
PUU PAKI 352	1969		
	APR 2E	200.00	
	JULY 1	54.00	
	SEPT 30	60.00	
	DEC 31	10.00	
TOTAL		E 324.00	
WAILUA IKI 348	1969		
	APR 2	193.00	
	JULY 1	94.00	
	SEPT 30	80.00	
	DEC 31	70.00	
TOTAL		437.00	

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
DECEMBER 1969

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	69	69	66	65	68	68	65	62	65	63	67	61	63	69	65	65	65	67	60	66	69	70	66	60	65	66	59	58	64	68	68	65.2
	MIN	49	52	52	53	40	40	50	57	58	56	56	56	53	50	49	45	43	52	55	48	41	45	46	50	54	56	49	50	53	47	48	50.1
KILAUEA POINT 1133	MAX	85	80	84	79	82	81	81	79	80	77	78	78	76	75	78	79	80	83	74	77	80	81	78	73	78	74	72	74	75	77	78	78.3
	MIN	71	68	70	66	67	70	71	69	65	69	70	70	65	68	70	67	67	68	65	66	66	68	63	63	66	69	51	48	69	70	67	66.5
LIHUE WB AP 1020.1	MAX	82	80	84	79	80	81	81	80	81	79	78	76	79	76	77	78	77	80	79	75	79	82	78	76	79	79	75	76	78	79	78	78.7
	MIN	67	69	70	65	64	68	74	73	73	73	71	69	71	71	66	64	61	63	65	62	60	64	65	70	73	74	63	67	70	71	68	67.9
MAKAHUENA POINT 940.1	MAX	83	85	85	83	83	91	80	82	81	81	81	81	83	79	79	79	79	84	85	82	82	81	82	85	85	85	85	76	78	78	79	82.0
	MIN	72	72	68	68	62	71	59	61	72	67	72	71	71	64	72	68	65	61	69	63	65	70	67	71	70	75	69	59	71	68	70	67.8
MANA 1026	MAX	85	85	84	86	78	82	85	87	85	86	84	82	79	82	82	80	80	80	82	77	78	82	83	77	82	79	85	73	79	87	82	81.9
	MIN	65	67	67	70	61	61	60	60	64	65	66	64	64	67	61	62	58	60	65	62	64	63	64	62	61	64	69	67	64	71	67	64.0
NIU RIDGE 1035	MAX	79	80	79	80	80	80	80	79	80	81	80	79	80	80	80	79	79	77	80	81	80	81	80	84	86	85	84	83	80	82	80	80.6
	MIN	63	62	60	60	61	60	61	60	61	63	62	60	60	59	58	59	59	64	64	65	63	54	61	60	61	62	60	61	60	62	61	60.8
WAIAHI LOWER 1054	MAX	80	80	80	80	80	79	77	72	74	74	73	74	72	74	73	75	76	75	76	74	72	74	77	76	73	79	80	72	73	74	76	75.6
	MIN	58	62	60	58	59	58	58	66	66	66	65	62	64	58	57	57	53	55	59	61	52	55	59	65	65	66	62	60	64	62	60	60.4
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	85	84	85	79	85	84	82	82	81	81	82	82	80	78	78	81	80	81	81	77	82	81	81	79	79	81	81	80	78	82	81	81.1
	MIN	71	62	65	67	65	62	65	70	69	68	67	62	63	63	63	61	58	58	62	57	55	55	58	68	67	67	68	65	66	65	63	63.7
HONOLULU WBFC 703	MAX	85	85	84	83	87	87	87	86	85	85	86	85	83	83	82	83	81	81	83	82	82	81	85	82	83	85	84	84	82	86	81	83.9
	MIN	72	68	71	72	70	68	74	75	73	73	74	67	69	71	72	64	64	64	68	67	63	62	63	70	70	71	69	70	69	69	69	69.1
HONOLULU SUBSTA 704	MAX	80	83	81	78	82	82	80	79	78	77	78	78	77	75	76	77	77	77	78	76	80	77	79	77	76	79	79	76	77	77	79	78.2
	MIN	73	70	71	70	71	70	73	72	70	71	71	70	69	69	70	68	65	65	70	67	66	65	67	70	64	70	65	66	66	67	68	68.7
KAHUKU 912	MAX		84	82		77			82	80		83	80			78	83	78	79	82			82	81	81		78			78	78	78	
	MIN	66	63	64	66	68			69	70	70	69	65			68	63	60	59	59			56	56	61		69			69	66	67	64.7
KANEOHE MAUKA 781	MAX	82	81	81	79	79	81	81	78	79	82	79	79	77	78	76	74	78	78	80	78	75	79	81	76	73	75	75	77	76	76	77	78.1
	MIN	74	66	68	68	62	67	70	71	68	67	71	66	68	68	69	65	64	65	68	66	63	61	60	65	70	69	69	62	65	64	67	66.6
LUALUALEI 804	MAX	84	84	83	83	80	83	82	83	82	83	81	83	81	78	82	80	80	79	80	79	82	81	80	82	79	82	83	80	83	78	82	81.4
	MIN	64	64	65	69	66	66	67	65	71	72	70	64	70	70	65	65	62	61	61	67	58	58	61	61	70	73	70	65	64	67	65	65.7
MAKAPUU POINT 724	MAX	81	80	81	81	74	78	80	77	77	77	76	76	73	72	74	74	70	77	79	78	73	78	78	78	71	74	73	69	72	73	72	75.7
	MIN	66	70	68	66	71	72	72	72	67	71	70	66	72	61	61	69	66	67	66	61	67	66	62	68	60	68	60	52	55	70	62	65.9
OPAEULA 870	MAX	81	83	83	80	75			79							80							80							80			
	MIN	67	60	60	65	59			66							59							55							55			
PRI WAHIAWA 820.2	MAX	84	84	84	81	77	84	81	84	79	78	79	80	77	74	80	76	78	81	81	77	84	83	80	81	74	79	80	76	80	76	80	79.7
	MIN	58	60	59	65	62	60	64	60	67	65	65	60	60	62	60	59	56	53	55	60	54	52	52	56	64	67	66	61	61	63	63	60.4
WAIALUA 847	MAX	87	83	81	85	79	82	86	82	81	80	80	81	79	79	77	79	80	78	80	78	77	80	79	83	76	79	80	80	76	78	80	80.2
	MIN	68	61	61	67	59	59	61	63	66	64	62	61	62	59	62	58	57	58	61	63	56	53	56	59	64	64	66	64	66	62	61	61.4
WAIKIKI 717.2	MAX	86	82	83	85	83	85		85	82	81	82		82	82	79	80	81	83	83	82	83	83	82	81	80	80	81	82	80	80	83	82.1
	MIN	73	72	73	70	60	64		72	70	69	72		69	69	69	61	59	59	67	69	69	57	62	65	65	65	68	65	64	65	64	66.4
WAIMANALO EXP FARM	MAX	82	81	81	78	80	82	82	81	80	78	80	81	81	80	79	78	81	82	80	83	79	81	84	81	77	76	79	79	78	77	81	80.1
	MIN	72	66	66	65	67	68	70	70	69	69	71	64	70	67	68	62	59	61	61	66	62	59	58	62	67	68	70	63	66	67	68	65.8
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	80	83	83	79	78	81	81	78	80	78	79	79	80	76	77	75	74	78	77	79	78	81	78	79	78	78	78	77	74	77	78	78.4
	MIN	72	67	65	66	70	69	69	70	71	71	70	66	67	69	67	64	62	61	61	66	61	59	61	64	64	68	68	64	69	68	68	66.4
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	75		83	78	76	75		77	75	77	74	76	72		74	74	74	76	75	74		76	75	76		75	74		70	75	75	75.2
	MIN	64		61	65	65	64		62	63	63	62	63	61		63	62	61	60	62	57		65	58	57		60	59		63	61	59	61.6
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	64	60	63	60	60	63	62	62	62	55	52	65	65	64	60	60	62	66	66	62	63	63	69	68	54	53	56	59	52	57	57	60.8
	MIN	47	45	50	47	40	44	40	47	46	43	44	42	44	37	37	38	44	45	47	40	43	44	47	43	43	46	44	43	42	40	42	43.4
HALEAKALA SUMMIT 338.4	MAX	56	53	52	49	49			51	53	45	48	55			53	56	56	55	57			60	58							56	43	47	
	MIN	38	40	39	37	37			40	37	36	39	43			35	41	44	41	43			44	44							35	37	38	
HANA AIRPORT 355	MAX	82	83	82	82	78	81	81	80	80	78	80	81	81		77	79	80	79	80	82	78	79	80	80	78	74	78	80	75	79	79	79.5
	MIN	66	67	66	65	66	68	70	70	70	68	64	63	63		66	63	60	62	62	62	62	60	60	62	67	67	66	67	68	65	66	65.0
KAANAPALI AIRPORT	MAX	82	83	85	82			83	82	82	80	80		80		78	80	79	78		80		79	79	81	82	77	82	82	82	79	80	80.7
	MIN	75	66	67	71			70	74	73	70	68		65		68	63	62	64		64		59	60	71	67	71	66	68	67	64	64	67.1
KAHULUI WB AP 398	MAX	86	85	85	79	85	85	82	84	79	81	82	82	80	79	80	80	78	81	81	80	81	81	82	81	78	80	82	71	79	79	80	80.9
	MIN	72	65	64	71	66	63	71	72	70	69	67	60	68	67	66	56	57	59	64	66	56	53	53	69	68	65	60	68	67	62	61	64.4
KAILUA 446	MAX	79	79	80	79	77	80	79	78	76	72	73	75	76	72	73	74	75	75	74	83	83	83	75	75	75	69	71	75	68	72	75	75.8
	MIN	64	66	64	64	66	64	67	67	65	65	64	63	63	62	62	60	59	59	59	59	58	59	55	59	63	64	65	64	64	61	60	62.4
KEAWAKAPU BEACH 260.2	MAX	86	86	87	83	79	85	85	88	89	87	86	86	84	82	82	83	83	81	82	80	81	81	82	85	85	82	85	81	80	82	83	83.6
	MIN	70	64	67	69	64	65	65	67	66	63	58	60	65	67	60	58	60	61	63	57	58	56	57	61	63	62	61	63	64	63	61	62.5
KULA SANATORIUM 267	MAX	76	75	74	72	68	72	72	71	73	70	74	69	71	70	71	68	69	71	68	70	70	74	71	69	72	69	70	67	68	70	69	70.7
	MIN	61	58	58	59	58	57	58	59	58	57	54	54	54	55	52	52	53	54	55	51	49	50	49	50	51	58	54	54	55	58	52	54.7

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII DECEMBER 1969

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	84	85	85	84	83	87	85	84	87	86	83	84	85	83	83	82	83	83	81	84	82	83	80	82	84	80	85	83	74	82	84	83.2
	MIN	71	66	66	70	66	67	68	70	70	67	63	64	64	63	62	63	63	63	64	65	59	60	61	63	66	67	69	67	65	65	65	65.2
WAILUKU 392	MAX	86	86	81	86	80			82	80	76	76	78			78	77	77	77	79			86		79					80	76		
	MIN	65	68	66	66	69			66	69	68	68	65			65	64	62	63	61			58		64					63	67		
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	80	83	83	82	82	80	80	79	78	80	77	80	78	77	70	74	78	79	79	77	74	78	79	78	78	78	77	79	76	76	78	78.3
	MIN	65	67	66	66	65	64	66	67	66	64	64	66	64	65	63	62	62	62	63	65	64	60	61	64	62	65	63	64	62	63	61	63.9
HAWAII VOLCNS NP HO 54	MAX	71	72	70	73	69	71	69	61	66	69	68	68	67	65	72	64	65	68	72	71	71	75	73	68	74	62	60	67	65	68	69	68.5
	MIN	53	56	51	51	57	50	56	55	54	51	50	50	51	53	53	46	47	48	53	46	40	43	52	51	52	52	50	52	51	52	48	50.8
HILO W8 AIRPORT 87	MAX	84	84	84	85	83	83	78	83	78	78	81	81	76	72	74	80	81	80	79	78	80	81	79	80	77	77	80	76	81	80	80	79.8
	MIN	64	65	64	63	64	64	67	67	66	63	63	64	62	67	66	64	60	62	57	61	57	59	64	63	65	65	64	64	62	64	60	63.2
KAINALIU 73.2	MAX	82	80	79	78	78	76	78	74	75	79	77	77	79	77	78	77	77	78	74	76	76	76	75	75	77	77	79	77	79	76	76	77.2
	MIN	61	61	61	61	63	62	61	65	65	64	61	58	59	60	59	58	60	59	59	59	55	55	58	57	61	59	59	60	59	61	59	60.0
KAMUELA 192.2	MAX	78	80	80	78	78	75	72	72	71	70	66	71	72	66	65	66	74	74	72	70	70	70	74	68	69	70	71	74	67	73	77	72.0
	MIN	52	54	57	53	56	56	56	55	58	57	55	53	56	54	53	55	45	48	54	53	43	41	44	55	55	54	48	51	55	54	48	52.5
KAMUELA AIRPORT 191	MAX	78	78	76	77		76	76	69	72	72	67	72	72	68	66	66	73	73	72	70	69	72	74	69	71		70	72	68	72	76	71.9
	MIN	51	51	45	54		51	59	54	44		53	48	44	50	56	46	46	46	46	46	42	40	44	44	50		45	50	52	47	44	48.1
KEAAU 92	MAX	85	82	85	85	84	84	82	77	80	79	78	80	80	77	75	74	80	83	83	82	78	81	80	81	80	78	77	80	79	81	82	80.4
	MIN	64	64	65	65	64	64	66	68	66	64	63	63	62	64	64	59	60	61	60	62	60	61	65	62	63	64	62	64	61	61	59	62.9
KEALAKEKUA 26.2	MAX	82	82	81	77	80	76	77	76	79	77	75	78	79	77	78	78	78	78	74	76	77	74	74	74	78	79	81	78	76	76	79	77.5
	MIN	63	62	62	61	63	64	62	65	65	64	62	61	60	61	60	60	60	59	60	60	57	56	59	60	61	60	61	60	61	61	62	61.0
KOHALA MISSION 175.1	MAX	81	82	81	82	81	79	80	75	78	70	76	77	77	74	70	76	77	77	80	78	74	77	77	77	71	74	75	78	77	76	77	76.9
	MIN	67	66	67	67	67	65	67	69	67	68	66	64	66	65	63	63	62	62	62	66	60	60	60	67	68	67	65	66	63	63	62	64.8
KONA AIRPORT 68.3	MAX	86	84	83	82	82	82	82	82	82	82	82	82	81	84	82	82	82	81	80	82	82	83	82	80	82	82	82	82	82	82	81	82.1
	MIN	69	64	62	66	66	69	66	67	68	64	66	61	61	61	63	61	62	61	61	64	60	60	62	61	65	63	61	62	62	62	64	63.3
KULANI CAMP 79	MAX	72	69	67	68	68	66	61	62	60	58	59	60	65	67	58	59	62	64	66	67	70	78	75	72	60	65	64	61	62	62	65	64.9
	MIN	47	46	43	45	48	40	51	51	50	47	45	37	37	43	45	44	41	46	43	44	42	36	36	34	37	43	44	51	44	45	40	43.4
MAUNA KEA BEACH 98	MAX	84	84	84	85	83	86	84	83	91	91	88																					
	MIN	70	71	71	70	70	69	72	71	67	71	73																					
MAUNA LOA SLOPE 08S	MAX	58	51	51	50	50	51	49	53	53	51	53	54	54	49	54	57	56	55	57	56	58	58	60	52	48	42	46	44	47	46	44	51.8
	MIN	38	37	36	37	35	35	35	34	37	36	36	33	35	33	33	36	38	36	38	40	39	40	40	35	32	31	29	31	30	30	32	35.1
MOUNTAIN VIEW 91	MAX	81	79	79	80	79	80	80	80	80	73	73	76	75	75	75	69	76	77	76	78	78	78	78	76	73	73	75	75	75	75	78	76.6
	MIN	52	59	59	60	63	57	57	57	57	58	58	57	57	57	57	59	55	55	54	49	49	49	57	57	59	59	56	56	56	57	55	56.4
NAALEHU 14	MAX	82	81	81	81	79	79	79	79	79	78	79	79	81	81	81	78	77	78	78	78	78	85	78	79	79	79	79	79	78	78	79	79.3
	MIN	63	65	65	66	67	67	67	67	69	67	64	65	65	59	59	59	64	62	60	60	60	62	64	61	65	65	65	65	63	61	61	63.6
OOKALA 223	MAX	82	82	82	83	82	82	82	79	79	79	76	78	78	78	78	73	73	78	78	79	75	78	78	78	78	71	85	77	76	77	78	78.5
	MIN	68	66	70	68	63	65	68	67	67	65	65	66	64	64	64	65	63	65	67	63	59	60	62	68	65	59	58	64	64	66	61	64.5
OPIHIHALE 2 24.1	MAX	78	77	77	74	73	75	76	73	75	76	77	74	74	75	76	74	76	72	73	75	75	72	72	74	75	75	72	75	75	75	73	74.6
	MIN	61	60	59	59	61	60	60	64	64	58	57	58	58	57	57	57	57	55	56	55	55	56	56	58	57	57	57	57	57	57	58	58.0
PAHALA 21	MAX	83	79	81	83	83	79	80	78	79	80	80	79	82	79	82	81	78	80	76	82	82	77	78	78	84	82	77	70	76	79	79	79.5
	MIN	64	63	62	62	65	63	64	65	64	63	61	60	60	61	60	59	59	60	58	57	55	55	61	58	61	65	61	61	60	58	59	60.8
UPOLU POINT USCG 159.2	MAX	84	86	84	85	85	81	81	80	80	80	78	79	79	79	76	77	78	79	81	80	82	79	79	79	79	76	77	81	81	87	80	80.4
	MIN	72	71	72	72	69	70	70	71	70	66	67	67	67	67	66	66	67	66	71	69	66	65	67	70	70	68	67	67	67	68	68	68.4

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE W8 AP 1020.1	EVAP	.10	.18	.12	.22	.23	.15	.23	.25	.21	.24	.20	.14	.15	.33	.31	-	.20	.16	.15	.24	.19	.17	-	.15	.17	.17	.14	-	.30	.20	.16	6.058
	WIND	71	59	67	98	61	55	127	195	233	232	188	108	115	222	241	103	76	75	63	116	103	70	78	164	349	244	164	197	239	136	88	4337
	MAX	82	84	86	84	80	83	84	81	78	80	79	83	76	80	74	80	81	80	80	78	77	79	83	80	82	85	81	70	77	79	82	80.3
	MIN	63	62	66	63	59	58	64	67	68	67	67	66	64	62	61	60	58	57	59	59	57	57	60	63	65	65	63	60	63	65	66	62.4
* * * ISLAND OF OAHU																																	
HONOLULU 08SERV 702.2	EVAP	.15	.28	.03	.10	.12	.25	.15	.15	.15	.30	.12	.15	.15	.15	.19	.15	.10	.15	.15	.15	.15	.11	.15	.15	.15	.22	.14	.16	*	.08	.15	4.60
	WIND	42	19	11	40	22	16	17	21	37	37	29	18	20	24	31	19	10	17	20	33	17	8	16	20	68	51	23	58	36	19	4	803
	MAX	89	90	88	87	81	86	87	84	83	84	82	84	81	82	81	77	80	83	83	83	81	83	82	84	80	81	86	81	82	83	85	83.3
	MIN	70	65	65	69	63	64	65	65	67	65	65	63	61	61	61	60	60	61	61	57	57	58	58	64	65	65	65	64	64	65	65	63.2

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
DECEMBER 1969
DELAYED DATA

Station	Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																
APRIL 1969																																
MOUNT WAIALEALE 1047	30.83	3.27	2.80	.28	.31	1.22	.47	.79	.47	1.14	1.46	.94	.94	.20	1.30	.04	.63	1.14	1.50	.59	1.89	.28	.47	.24	.35			1.81	2.36	3.35	.59	
* * *																																
MAY 1969																																
KALAUPAPA 563 A	1.51	*	*	*	*	*	*	*	*	*	*	*	*	*	1.28	.16	*	*	*	*	*	*	*	.07	*	*	*	*	*	*	*	*
MOUNT WAIALEALE 1047	24.27	.51	1.50	.55	.43	3.35			.59	2.60	3.94	4.18	1.77	.32	.71	.55		.12	.04					.47	1.85	.16	.63					
* * *																																
JULY 1969																																
MOUNT WAIALEALE 1047	39.20	.98	1.10	1.58	1.58	.16	.59	2.40	1.18	1.54	2.09	1.38	1.22	.98	.67	1.89	1.22	.32	1.38	5.79	2.92	.32	1.02	.43	1.46	3.07	.04				.24	1.65

CORRECTIONS

DATE	TABLE	ISLAND	STATION	CORRECTION
AUGUST 1969	DAILY TEMPERATURE	ISLAND OF KAUAI	N1U RIDGE 1035	MINIMUM TEMPERATURE 31ST 63; AVERAGE MINIMUM TEMPERATURE 63.0

See Reference Notes Following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI													
ALEXANDER RESV. 983		0140	00	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1111	A	0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1		0465	00	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053		1170	00	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A	2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A	3984	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4501	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4506	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4508	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1		4650	00	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	M10	M10	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1		5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A	5804	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M+M 1001		6097	00	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		M10		S	U S GEO SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148		M10		S	U. S. GEO. SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055		6893	00	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	00	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	730		8A			LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	00	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A	0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8		0438	00	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9A	7A			EWA PLANTATION CO
HALAWA SHAFT 77192		0964	00	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WBFC 703	R	1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12	M10	M10		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707		2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6		2269	00	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KAMEHAME 724.7		3056	00	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	00	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3		3825	00	KOOLAUPOKO	1	21 40	158 00	1050				C	HAWAII NATIONAL GUARD
KEHOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 08	1500				C	U S NAVY
LULUKU		5655	00	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LOH
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A	5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	00	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	00	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1		7933	00	EWA	3	21 25	157 58	240				C	JAMES MUHENO
PORTLOCK ROAD 724.4		8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	00	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788		8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780		8730	00	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798	A	9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 803	A	9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836	A	9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE RESV. 723.2	A	9495	02	HONOLULU	2	21 18	157 45	170					BOARD OF WTR SUPPLY
WAILUPE VLY SCH 723.6		9500	00	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A		C	WAIMANALO EXP FARM
WAIMEA 892	A	9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721		9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6		3046	00	MOLOKAI	1	21 04	156 52	60				C	W.J. CARSTEN
KAUNAKAKAI 536	A	3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	00	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560					MOLOKAI RANCH, LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL & LIBBY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
ISLAND OF MOLOKAI													
PUUOHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI													
KAHEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370				C	ST. DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 53	156 55	1430					DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI													
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474		0541	00	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477		0790	00	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LOCKHEED SP & MIS DIV
HALEHAKU 492.2		1016	00	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO.
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355		1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281		1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO.
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO.
HONOLUA FLD 49 494		1914	00	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO.
HOHOHANU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	00	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	00	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WB AP 398	R	2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	U S WEATHER BUREAU
KAILIILI 436	A	2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	00	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410		3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A	4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311		4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258		4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380		4887	00	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPPLE CO.
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475		6521	00	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO.
NAKALELE -FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO.
OLINDA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A	7060	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
PAUWELA 490	A	7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A	8330	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352		8553	00	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348		9460	00	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392		9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A	9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII													
AHUA UMI 75	A	0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A	0190	01	N KOHALA	1	20 10	155 43	1870					KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A	0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87	R	1492	02	S HILO	2	19 43	155 04	27	M10	M10	M10	C J	U S WEATHER BUREAU
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A	1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A	2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1330		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4		2514	00	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8		2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191		3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1		3510	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO HASUYA
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	00	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A	4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA AIRPORT 68.3		4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8		4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE MIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULAHI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300				C	U S WEATHER BUREAU
KULAHI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAHILO FLD OFF 191.1		5260	00	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF LGN RES
LAHIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MANUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	5	19 32	155 35	11146	M10	M10			MAUNA LOA OBSERVATORY
MIOOLE HOLUALOA 68.1	A	6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA

STATION INDEX

(CONTINUED)

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6556	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	873	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	~30	7A	7A			LAUPAHOEHOE SUGAR CO
OPIMIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7183	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULLO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAD 37	A 7648	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO. INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			HAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			HAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8008	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU HALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUHAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8551	02	S HILO	2	19 44	155 23	6340		6A			ODN WINTERS
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	GILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8591	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UMIKOA 118	8781	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKAMONOULA 178.6	9350	00	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additioeal informatioe regarding the climate of Hawaii may be obtaieed by writieg to the Eeviroomeetal Science Services Administratioe Regioeal Climatologist, P. O. Box 3650, Hoeolulu, Haaaii, or to aey Weather Bureau Office eear you. Additioeal precipitatioe data are coetaieed in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS. Deless otherwise indicated, dimeesioeal uoits used in this bulletin are: Temperature in °F., precipitation aed evaporatioe in inches, aed wind moveoeet ie miles. Ie "Supplemeotal Data" table directions entered ie figures are teee of degrees. Resultaet wind is the vector sum of wind directions eed speede divided by the number of observatioes

OBSERVATION TIME. Data ie the "Moethly Extremes", "Daily Precipitatioe" table, "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours eodiag at time of observatioe ueless indicated otherwise by reference letters in the Statioe Iedex. The Statioe Index shows obeervation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of obeervation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological staedard eormals based on the period 1931-1960.

STATION NAMES. Hawaii state key eumbers are iecluded followieg statioe eames ie the several tables.

DELAYED DATA AND CORRECTIONS will be carried oely ie the Juee aed December issues of this bulletie.

INTERPOLATED VALUES for moothly precipitatioe totals may be found ie the aenual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record ie the "Supplemeotal Data" table, "Daily Precipitatioe" table, "Evaporatioe aed Wied" table, "Seowfall and Snow oe Ground" table, aed the Statioe Iedeex.

  No record ie the "Climatological Data" table aed the "Daily Temperature" table is iedicated by eo eetry.

+ Aed also oe ee earlier date or dates

++ Highest observed one minute aiedspeed. This station is eot equipped witb ae iestrumeet to measure fastest mile data.

• Amount iecluded ie following measuremeet, time distributioe unkeown.

A The letter "A" shown followieg statioe eame in "Climatological Data" table, "Daily Precipitation" table, aed "Statioe Iedex"; indicates amount carried ie the "Total" colume is for the period from iaet measuremeet of e precedieg moetb tbrougb the last measuremeet of the current moetb. See "Daily Precipitation" tabls of this aed previous bulleties for dates of measurement. Where gages are read oely once monthly, measuremeets made oe the first of a month are credited to the last day of the preceding moetb.

H Adjusted te a full moetb.

J "Supplemental Data" table.

M One or more days of record missing, if average value is eetered, less than 10 days record is missieg. See "Daily Temperature" table for detailed daily record.

R Amounts from recordieg gage.

T Trace, ae amouet toe small to measure.

V Iecludee total for previous moeth.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observetion made after rain.

C In Special Column of Station Iedex iedicates Recording Rain Gage Station. Hourly precipitation values are processed for speciel purposes, aed are published later in the "Hourly Prscipitation Data" bulletin. If daily amounts are published ie "Climatological Data" bulletin they are from a separate non-recordieg gage, except where indicated by refereece 'R'. Such amouets may differ from amouets publisbed from the recordieg gage ie the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually oe the last day.

OC Gage readiegs at periods varyieg from a few weeks to several moetbs.

S Storage Precipitatioe Statioe. Precipitation measurements, made at irregular ietervals, are published in the December issue, or as delayed data in the Jues issue of this publicatioe.

SS Observation time is eear sueset.

VAR Observatioe time ie variable.

WI Gage read weekly or irregularly oely.

WM Gage read weekly aed laet day of month.

Thermometers are geeerally exposed ie a sbelter ioceted a few feet obovo sod-covered groued; bowever, this reference indicates that the thermometers are eapoeed ie a sbelter located on the roof of a buildieg.

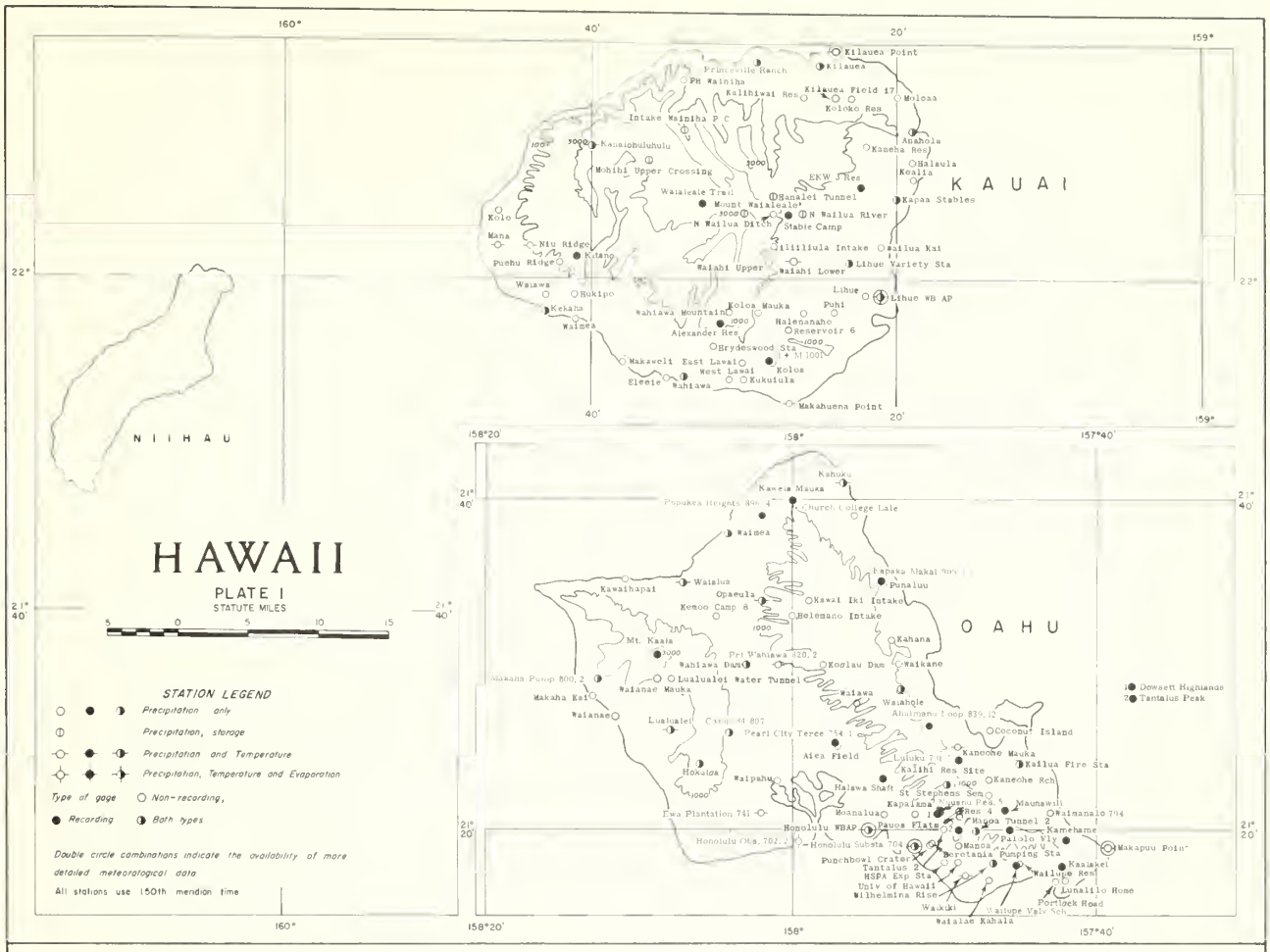
Statione appearing in the tables aith no data are either missing or received too late to be iecluded in this issue.

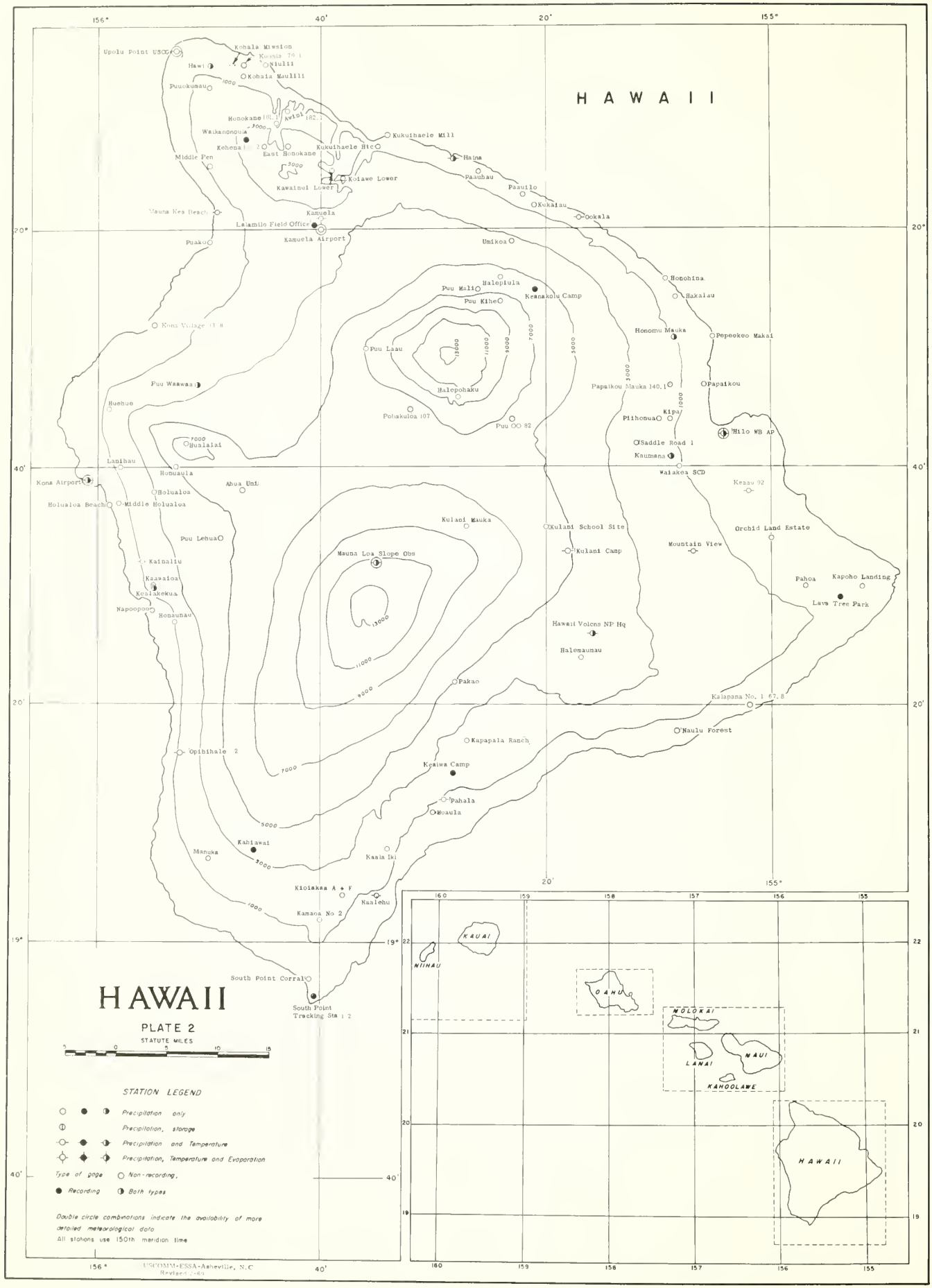
Geeeral weather coeditione in the U. S. for such moetb are described ie the publicatione MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, aed STORM DATA, all of abicb may be obtained from the Superintendent of Documeets, Government Printieg Office, Wasbingtoe, D. C. 20402.

Ieformatioe coecerniog the bistory of changes ie locations, eievatioes, eaposure, etc., of substatioes through 1957 may be foued ie the publication "Substation History" for this State, price 40 ceets. Similar ieformatioe for regular Weather Bureau stations may be found ie the latest aneual issue of Local Climatological Data, price 15 centa. Theee publicatione may be obteined from the Superiatendent of Documeats at the address sbown above.

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USCOMM-ESSA-ASHEVILLE-4/7/70-890


NIIHAU
KAUAI
OAHU
HAWAII
PLATE I
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
Kilauea Point
Princeville Ranch
Kilauea
PH Wainiha
Kalihiwai Res
Kilauea Field 17
Koloko Res
Moloaa
Intake Wainiha P C
Anahola
Kaneha Res
Halaula
Kealia
Kamalomuliuliu
Mohihi Upper Crossing
Waialeale Trail
EKW 3 Res
Mount Waialeale
Kapaa Stables
Kolo
Mana
Niu Ridge
Kutano
Puehu Ridge
N Wailua Ditch
Stable Camp
Lihue Variety Sta
Waiahi Upper
Waiahi Lower
Waiawa
Hukipo
Kekaha
Waimea
Wahiawa Mountain
Koloa Mauka
Puhi
Lihue
Lihue WB AP
Alexander Res
Halenanahe Reservoir 6
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Church College Late
Waimea
Kawaihapai
Waialua
Opaeula
Kawai Iki Intake
Punaluu
Kemoo Camp 8
Helemano Intake
Kahana
Mt. Kaala
Wahiawa Dam
Koolau Dam
Waikane
Waialee Mauka
Lualualei Water Tunnel
Waiawa
Waiahole
Makaha Kai
Waianae
Lualualei
Pearl City Teree
Aiea Field
Coconut Island
Kaneohe Mauka
Kailua Fire Sta
Hokulea
Waipahu
Kalihi Res Site
Kaneohe Rch
Halawa Shaft
St Stephens Sem
Kapalama
Ewa Plantation 741
Moanalua
Honolulu WBAP
Pauoa Flats
Maunawili
Waimanalo 794
Honolulu Substa 704
Punchbowl Crater
Tantalus 2
HSPA Exp Sta
Univ of Hawaii
Wilhelmina Rise
Beretania Pumping Sta
Pali Lo Vly
Makapuu Point
Kaalakei
Wallupe Res
Lunalilo Home
Portlock Road
Waikiki
Kaiupe Valv Sch
Waialae Kahala
Oowsett Highlands
Tantalus Peak
MOLOKAI
Keoneiele Pens
Kalaupapa
Molokai AP
Kuaiapuu
Maunaloa Sil
Kaunakakai Mauka
Kaunakakai
Waikolu
Puuhoku Ranch
Mapulehu
Kamalo Mauka
LANAI
Kanepuu 690
Mahana
Lanai City
Lanaihale
Waiakeakua
Kaumalapau Harbor
Malauea 676
MAUI
Nakalele Fld 60
Honolua Fld 49
Honokohua
Field 46
Mokupea 470
Honokohau
Kanakaloa Mauka 482.4
Mahinahina
Haelaau
Waihee Valley
Kapalapali Airport
Puu Kukui Makai
Kahoma Intake
Waiehu Camp
Kahului WB AP
Spreckelsville
Paia
Pauwela
Halehaku 402.2
Hanakaupoko
Kailua
Wahikuli
Kukui
Iao Needle
Wailuku
Lahaina
Kauaula Intake
Olowalu
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Waikapu
Puunene
Keahua
Haliimaile
Lupi Upper
Waikamoi
Haleakala H E S O
Kailiilii
Haleakala Ranch
Puohokamoa 2
Keanae
Paakea
Waikamoi Dam
Hana AP
Olinda
Ukulele
Waiiua iki
Kula Heights
Puu Paki
Honomanu Gulch
Twin Gates
Haleakala RS
Holua Cabin 259.5
Hana
Ukumehame
Kihe
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Polipoli Spgs
Panileihuiu
Hanahuii
Kaupo Ranch House
Ulupalakua Ranch
Kipahulu
Auwahi
Waiopai Rch
KAHOOLAWE
USCOMM-ESSA-Asheville, N.C.
Revised 2-68


HAWAII
Upolu Point USCG
Kohala Mission
Kawaihae 7.0 1
Niulii
Hawi
Kohala Mauliili
Puuokumau
Honokane 181.1
Waikanonoula
Kehena
East Honokane
Kukuihaele Mill
Kukuihaele Htc
Middle Pen
Haina
Paauhau
Kawainui Lower
Kolawe Lower
Pauuilo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Hakalau
Puu Mali
Halepiula
Keanakolu Camp
Puu Kihe
Kona Village 11.8
Puu Laau
Honomu Mauka
Pepeekeo Makai
Puu Waawaa
Papaikou Mauka 140.1
Papaikou
Huehue
Halepohaku
Pohakuloa 107
Puu 82
Piihonua
Kipa
Hilo WB AP
Saddle Road 1
Kaumana
Hualalai
Lanihau
Waiakea SCD
Kona Airport
Honuaula
Keaau 92
Holualoa
Ahua Uni
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Mountain View
Mauna Loa Slope Obs
Kulani Camp
Kainaliu
Kaawaloa
Pahoa
Kapoho Landing
Keahakeua
Lava Tree Park
Napoopoo
Honaunau
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 67.8
Naulu Forest
Opihihale 2
Kapapala Ranch
Kealwa Camp
Pahala
Hoaula
Kahiawai
Manuka
Kaala Iki
Kiolakaa A + F
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1 2
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PLATE 2
STATUTE MILES
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
USCOMM-ESSA-Asheville, N.C.

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

ANNUAL SUMMARY 1969

Volume 65 No. 13

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JUL 15 1970
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AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
• • •																										
ISLAND OF KAUAI																										
KANALOHULUHULU 1075	53.0		58.2		57.0		58.7		60.5		62.3M		65.0		65.2		64.5		61.6		59.8		57.7		60.3M	
KILAUEA POINT 1133	70.8M		70.4M		70.8		71.4		73.9		77.3		76.6		77.4		76.9		76.9		75.6		72.4		74.2M	
LIHUE WB AP 1020.1	65.8	- 5.1	70.5	- .2	69.9	- 1.1	72.0	- .5	75.4	.9	78.3	1.7	79.5	1.9	80.0	1.6	79.5	1.4	77.1	.2	75.6	1.1	73.3	1.1	74.7	.2
MAKAHUENA POINT 940.1	69.5M		72.0M		73.0		72.9		76.6		79.0		80.0		80.1		79.4		78.6		76.8		74.9		76.1M	
MANA 1026	68.0M	- 3.1	72.1	1.1	71.6	.4	72.8	.1	75.0	.3	78.0	1.3	79.0	1.1	78.6	.3	77.9	.0	76.5	- .5	74.5	- .2	73.0	.9	74.8M	.2
NIU RIDGE 1035	65.4		69.2		68.7		68.5		69.7		71.7		74.0		73.4		73.4		72.2		70.8		70.7		70.6	
WAIAHI LOWER 1054	63.2		68.4		68.4		69.0		69.6		72.5		73.4		73.4		72.5		71.3		70.3		68.0		70.0	
ISLAND	64.2		67.9		67.5		68.8		70.9		73.7		74.7		74.9		74.3		72.7		71.2		68.9		70.8	
• • •																										
ISLAND OF OAHU																										
EWA PLANTATION 741	68.2	- 2.8	72.8	1.9	71.8	.0	72.9	- .2	74.1	- .8	76.6	- .2	78.6	.9	78.3	.0	76.9	- .7	75.6	- 1.0	74.5	.0	72.4	.0	74.4	- .2
HONOLULU WBFC 703	69.1	- 3.4	73.9	1.5	73.6	.8	74.7	.5	76.7	.8	79.1	1.2	80.9	2.1	80.2	1.8	82.0	2.8	80.5	2.3	78.7	2.8	76.5	2.9	77.4	1.5
HONOLULU SUBSTA 704	69.7	- 2.5	71.9	.0	72.5M	.3	72.7	- .5	74.8M	- .1	M		78.5	.8	78.7	.3	77.7	- .6	77.4	.0	75.9	.5	73.5	.4	-	
KAHUKU 912	68.8M	- 2.6	72.5M	.9	M		73.1M	- .1	M		77.6M	.9	78.4M	.7	M		77.9M	- .3	76.6M	- .7	M		M		-	
KANEOHE MAUKA 781	69.0	- 2.5	71.0	- .2	70.6	- .7	71.4	- 1.1	74.2	.0	76.4	.5	77.5	1.0	77.4	.3	76.3	- .5	75.7	- .4	74.3	.1	72.4	.3	73.9	- .2
LUALUALEI 804	68.7M		73.8M		73.4		75.3		76.6		78.7		81.1		81.6		79.6		77.7M		76.3		73.6		76.4M	
MAKAPUU POINT 724	68.8		72.5		71.8M		70.9		74.7		77.1		77.1		75.6M		77.0		77.1		74.4		70.8		74.0M	
OPAEULA 870	66.3	- .5	69.7	.0	67.0	.2	68.4	.4	71.5	1.7	73.9	2.3	74.3	2.1	74.4	1.4	73.9	.7	73.3	.9	72.3	2.1	M		-	
PRI WAHIAWA 820.2	64.9		70.4		69.2		70.7		73.3		75.6M		76.4		76.1		74.9		73.8		72.6M		70.1		72.3M	
WAIALUA 847	68.3	- 2.2	71.1	.9	69.2	- 1.1	71.0	- .5	73.3	- .1	75.6	.3	76.6	.4	76.1	- .6	75.0	- 1.3	74.4	- 1.0	73.5	.1	70.8	- .4	72.9	- .5
WAIKIKI 717.2	69.3M		74.0		73.9M		74.8		76.7		78.8		80.1		80.4M		79.6		77.7		76.3M		74.3M		76.3M	
WAIMANALO EXP FARM	-		-		-		-		-		-		-		-		79.3		77.0		75.5		73.0		-	
ISLAND	68.1		71.8		71.1		72.3		74.6		77.0		78.0		78.1		77.6		76.4		74.9		72.7		74.4	
• • •																										
ISLAND OF MOLOKAI																										
MOLOKAI AP 524	68.2		70.7		71.9M		72.2		75.5		77.4		77.8		77.8		76.8		75.9		74.7		72.4		74.3M	
ISLAND	68.2		70.7		71.9		72.2		75.5		77.4		77.8		77.8		76.8		75.9		74.7		72.4		74.3	
• • •																										
ISLAND OF LANAI																										
LANAI CITY 672	64.7	- .9	67.6	2.1	67.8M	1.8	67.9M	.9	69.5M	1.0	70.4	.3	71.4M	.3	70.9M	- 1.0	71.3M	- .1	71.4M	.7	70.5M	1.1	68.4M	1.9	69.3M	.7
ISLAND	64.7		67.6		67.8		67.9		69.5		70.4		71.4		70.9		71.3		71.4		70.5		68.4		69.3	
• • •																										
ISLAND OF MAUI																										
HALEAKALA RS 338	48.3		51.1		49.1		52.0		53.2		55.1		57.2		55.0		54.9		54.4		53.8		52.1		53.0	
HALEAKALA SUMMIT 338.4	40.9M		42.8		41.6		44.7M		M		53.3M		49.4M		M		51.1M		50.0M		-		M		-	
HANA AIRPORT 355	69.1		72.0		72.1		72.6		74.4M		76.4		77.0		76.7		76.7		75.6		74.8		72.3M		74.1M	
KAANAPALI AIRPORT	70.6		73.1M		72.9		73.3M		75.4		-		78.6M		78.7M		77.9M		76.2M		74.6M		73.9M		-	
KAHULUI WB AP 398	68.8	- 3.3	72.5	.8	72.2	.0	73.5	.1	75.5	.2	77.9	.7	80.1	1.8	79.5	.5	77.9	- .5	76.1	- 1.2	74.8	- .2	72.7	.0	75.1	- .1
KAILUA 446	67.2	- 1.2	67.9	- .2	67.8	- .3	68.1	- 1.0	70.4	.0	72.6	.7	73.6	.9	73.4	.2	72.8	- .5	72.0	- .7	71.0	.0	69.1	.2	70.5	- .2
KEAWAKAPU BEACH 260.2	70.1		73.4M		72.6		73.3		75.2		77.1M		79.3M		78.4		77.4		75.9		75.1		73.1		75.1	
KULA SANATORIUM 267	57.7	- 3.7	62.5	1.4	60.8	- .4	62.1	.1	64.4	.9	65.7	.8	67.0	1.0	66.5	- .2	66.1	- .4	65.1	- 1.1	64.8	.4	62.7	.4	63.8	- .1
LAHAINA 361	70.6		74.3		73.7		74.0		76.0		77.7		79.1		78.6		78.3		77.0		75.9		74.2		75.8	
WAILUKU 392	70.2M	- 1.5	72.9M	1.6	72.9M	1.4	73.3M	.7	74.9	.5	78.4M	2.0	M		M		M		75.4M	- 1.6	M		M		-	
ISLAND	65.3		68.3		67.7		68.6		70.5		72.0		73.2		72.6		72.1		71.5		70.0		68.1		70.0	
• • •																										
ISLAND OF HAWAII																										
HAINA 214	68.8	- .7	68.8	- .7	68.9	- .6	68.7	- 1.3	70.9	- .5	73.7	.7	75.0	.9	74.6M	.1	74.5M	.0	74.4	.4	73.3	1.3	71.1	.9	71.9M	.0
HAWAII VOLCNS NP HO 54	56.8	- 1.3	57.1	- .8	57.1	- .8	57.5	- 1.6	60.4M	- .2	62.5	.5	63.1	.2	63.1M	- .5	62.3	- 1.0	63.0	.1	60.5	- .3	59.7	1.0	60.3M	- .4
HILO WB AIRPORT 87	71.4	.6	72.2	1.6	72.5	1.9	72.8	1.2	74.5	1.5	76.2	1.9	75.8	.9	76.2	.4	75.0	- .5	74.5	- .6	73.3	.1	71.5	.0	73.8	.7
KAINALIU 73.2	66.1		68.9		68.5		69.1		70.0		70.9		72.4		72.2		72.0		71.2		70.2		68.6		70.0	
KAMUELA 192.2	63.9		62.2		62.0		62.3		63.7		66.3		67.0		66.8		66.3		65.8		64.6		62.3		64.1	
KAMUELA AIRPORT 191	57.0		59.6		61.0M		61.8M		63.7		65.2		65.6M		66.9M		65.8M		64.3		63.0M		60.0M		62.8M	
KEAAU 92	70.6	.3	70.5	.2	71.0	.7	70.8	- .3	72.7	.2	75.0	1.3	75.0	.6	74.7	- .4	74.3	- .6	74.7	.3	73.1	.5	71.7	.7	72.8	.2
KEALAKEKUA 26.2	67.0		69.5		69.1		69.6M		70.3		71.1		72.7		72.3		71.9		71.2M		71.2		69.3		70.4M	
KOHALA MISSION 175.1	69.2	- .3	69.7	.3	69.7	.3	69.5	- .8	71.9	.0	74.4	1.0	74.8	.7	74.6	- .1	74.5	- .1	74.1	.0	72.7M	.7	70.9	.8	72.2M	.2
KONA AIRPORT 68.3	70.7		72.6		72.1		73.0		74.4		75.1		76.3		76.2		76.5M		74.9		74.4		72.7		74.1M	
KULANI CAMP 79	53.1M		53.3		52.3		53.0M		55.5M		57.1M		57.7M		M		57.3		56.0		54.8M		54.2		-	
MAUNA KEA BEACH 98	72.5		78.3M		76.9M		78.1M		77.4		79.5		81.5M		81.3		80.9		79.0		78.3		M		-	
MAUNA LOA SLOPE OBS	39.2M		41.5		39.8M		43.4		47.1		49.5		48.3M		46.4		48.8		46.9		44.7		43.5		44.9M	
MOUNTAIN VIEW 91	65.3		65.4		65.4		64.9		67.9		70.2		70.1		70.0		69.5		69.5		67.6		66.5		67.7	
NAALEHU 14	70.7		71.2		70.7		71.8		72.8		74.9		75.7		75.2		74.3		74.6		73.5		71.5		73.1	
OOKALA 223	69.6	- 1.2	70.1	- .1	69.9	- .5	69.8	- 1.4	72.1	- .7	75.3	1.0	75.2	.4	74.9	- .3	75.0	- .5	75.0	- .7	73.3	- .3	71.5	.4	72.6	- .3
OPIHIHALE 2 24.1	65.5		67.2		67.2		68.6		69.5		70.7		71.2		71.1		70.5		69.4		68.2		66.3		68.8	
PAHALA 21	68.4	- .6	69.7	.9	68.5	- .4	69.9	.1	70.7	- .3	71.7	- .5	74.1	.1	73.8	- .2	72.7	- 1.1	72.2	- 1.1	71.2	- .4	70.2	.1	71.1	- .2
UPOLU POINT USCG 159.2	72.0		72.4		72.2M		72.1		74.7		77.1		77.2		76.9		76.8		76.7		75.8		74.4		74.9M	
ISLAND	65.7		67.3		67.1		67.7		69.1		70.7		71.7		73.1		71.2		70.5		69.4		66.9		69.2	

Division averagee in the annual issue include delayed and corrected data and may differ slightly from values published in monthly iesuee.

A SPECIAL WEATHER SUMMARY DESCRIBING UNUSUAL WEATHER WAS PUBLISHED IN JANUARY, FEBRUARY, OCTOBER, NOVEMBER, AND DECEMBER 1969 ISSUES OF THIS BULLETIN.

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

Table 2

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
• • •																										
15LAND OF KAUAI																										
ANAHOLA 1111	A	7.62	.90	2.79-	2.67	1.66-	4.55	1.61-	2.50	3.56	.61	1.99	.34	3.56	1.17	.97-	1.92	2.14	.01	2.77-	2.15	6.46	1.70	5.17-	.23	40.30-	9.29
BRYOESWOOD STA 985	A	9.07	1.88	16.75	10.59	2.11-	3.66	5.58	2.01	4.77	1.45	1.49-	1.72	4.71	.61	3.64-	1.50	3.33-	.19	2.31-	2.75	5.66	.29	3.39-	3.81	62.81	3.20
EAST LAWAI 934	A	7.65	.83	11.64	5.61	2.61-	3.39	9.04	4.66	5.08	1.28	1.73-	2.02	5.75	.78	3.28-	2.89	4.63	.49	3.18-	2.12	7.30	1.42	5.35-	1.69	67.24	2.98
ELEELE 927	A	4.51-	.29	5.45	1.51	.47-	2.86	2.30	.61	1.75	.43	1.18	.18	1.11-	.15	.47-	1.63	1.03-	.41	2.00-	.71	3.60	.65	.68-	3.50	24.55-	6.17
HALAULA 1110	A	5.67-	1.24	3.46-	1.89	2.59-	3.45	2.16-	1.76	4.30	1.32	1.12-	.79	4.12	1.86	2.21-	.69	2.21-	.08	3.36-	1.23	8.04	2.85	5.57	.05	44.81-	5.05
HALENANAHO 1006	A	7.67		9.24		3.00		5.90		7.24		2.25		7.75		3.16		5.25		3.43		9.20		8.13		72.22	
HUKIPO 945		3.57		5.03		.25		.14		1.23		.72		.13		.18		.15		.19		3.71		.40		15.70	
ILILILULA INTAKE 1050	A	11.94		28.50		13.72		15.62		13.25		5.37		17.69		10.32		16.16		7.83		14.29		9.97		164.66	
INTAKE WAINIHA PC 1086	A	14.40		E 5.99		E25.14		17.94		23.84		9.04		16.66		8.17		8.64		8.51		12.42		26.47		177.22	
KALIHIWAI RES 1131	A	17.51		13.33		9.52		8.60		13.72		4.48		11.58		6.92		8.38		6.26		10.89		14.15		125.34	
KANALOHULUHULU 1075		27.85		5.53		2.16		2.25		3.90		2.11		3.14		1.65		2.36		2.78		5.59		7.17		66.49	
KANEHA RESERVOIR 1092	A	12.20		8.91		8.40		6.22		10.49		4.94		9.51		3.64		7.54		6.79		12.56		11.44		102.64	
KAPAA STABLES 1104	A	4.46		3.34		2.64		2.65		4.54		.89		5.01		1.28		2.23		2.41		9.36		5.52		44.33	
KEALIA 1112	A	4.62-	1.26	2.61-	2.08	1.78-	3.52	2.14-	1.22	3.44	1.25	1.04-	.59	3.74	1.83	1.01-	1.52	1.92-	.18	2.08-	1.72	6.09	1.60	4.90	.07	35.37-	7.34
KEKAHA 944		3.40-	.28	2.70-	.22	.31-	2.22	.00-	1.07	.39-	.39	.16-	.18	.03-	.35	.06-	.91	.02-	.60	.11-	1.73	4.07	2.48	.38-	2.91	11.83-	8.44
KILAUEA 1134	A	11.87	3.74	6.22	.10	3.04-	4.35	3.41-	2.10	6.45	1.45	2.68-	.59	6.05	1.61	2.47-	2.52	4.37	.76	2.68-	2.46	8.93	2.26	9.92	2.72	58.09	.62
KILAUEA FIELD 17 1135	A	16.84	6.75	9.21	1.03	5.17-	4.71	5.32-	2.49	8.15	.56	4.76-	.29	8.78	2.07	4.13-	3.56	6.08	.80	4.49-	2.58	10.72	2.44	12.33	2.82	95.98	2.84
KILAUEA POINT 1133		9.27		3.72		2.34		1.41		6.06		4.98		5.84		3.96		4.50		2.72		7.93		6.06		58.79	
KOLO 1033		5.51		1.16		.23		.08		1.06		1.46		.32		.23		.10		.41		2.90		.90		14.36	
KOLOA 936	A	8.37	1.40	9.85	3.61	4.04-	2.59	7.70	2.97	4.93	.58	2.09-	1.60	6.60	1.54	3.70-	2.82	5.11	.73	4.60-	.71	8.19	2.12	7.24-	.38	72.42	4.91
KOLOA MAUKA 994	A	11.12	1.35	14.10	4.77	4.12-	4.53	8.30	1.64	8.11	1.95	2.38-	3.34	8.01	.64	4.73-	4.07	7.11	.73	4.47-	3.47	8.67	.40	6.82-	3.37	87.94-	7.30
KOLOKO RES 1137	A	15.36		9.30		4.64		4.66		7.88		3.91		9.28		4.35		6.73		7.17		9.97		10.78		93.83	
KUKUIULA 935	A	7.85	2.49	5.71	1.24	1.14-	3.22	3.63	1.22	3.39	1.48	1.06-	.35	2.62	.56	1.75-	1.49	2.15-	.11	2.36-	1.01	5.96	1.95	4.07-	1.54	41.69	1.22
LIHUE VARIETY STA		6.21		7.88		4.44		4.25		7.44		1.56		7.60		3.33		4.75		6.31		10.58		7.80		72.15	
LIHUE 1020	A	6.65	.20	3.48-	2.24	2.70-	2.82	2.48-	1.38	3.17-	.57	1.54-	.75	2.83	.05	1.05-	2.48	2.73-	.17	5.65	.67	6.94	1.81	8.28	2.10	47.50-	5.58
LIHUE WB AP 1020.1	R	4.97-	.54	1.94-	3.38	1.75-	2.81	1.52-	1.82	2.80	.21	.89-	.57	1.47-	.47	.83-	1.63	1.49-	.59	3.15-	.88	7.45	2.92	5.91	.73	34.17-	8.83
MAKAHUENA POINT 940.1		9.18		4.14		.99		1.55		1.98		.89		.94		1.08		1.17		2.77		8.62		2.97		36.48	
MAKAWELI 965	A	3.76-	.13	1.95-	1.69	.59-	1.91	.09-	1.04	1.47	.61	.37	.00	.31-	.30	.16-	1.07	.56-	.32	.57-	1.68	2.99	.82	.49-	2.91	13.31-	9.62
MANA 1026		4.43	.37	1.48-	1.33	.09-	2.56	.07-	1.18	.64-	.26	.62-	.02	.25-	.31	.19-	.80	.03-	.76	.32-	1.73	4.62	2.57	.65-	2.65	13.39-	8.66
MOHIHI UPR CROSS 1083	A	11.00		6.82		7.20		3.43		4.99		3.96		5.09		2.82		3.22		2.75		6.56		3.02		60.86	
MOLOAA 1145	A	11.96	5.05	4.28-	1.42	2.28-	4.20	1.77-	2.34	4.59	1.24	2.37	.66	4.04	1.66	1.39-	1.66	2.23	.05	4.70	.08	5.83	.82	6.11	.90	51.55	.84
MOUNT WAIALEALE 1047		37.15		E49.26		E33.45		30.83		24.27		21.08		39.20		30.22		34.39		18.60		29.76		29.78		E377.99	
NIU RIDGE 1035		5.05		2.40		.21		.27		.81		1.31		.76		.29		.29		.51		3.17		.98		16.05	
N WAILUA DITCH 1051	A	18.05		31.21		13.15		15.44		12.78		7.14		17.02		10.70		17.74		9.79		17.00		10.62		180.64	
PM WAINIHA 1115		32.40	22.17	27.82	16.17	23.25	8.80	18.25	5.98	16.03	6.87	6.98	1.00	9.72-	.36	5.81-	4.84	7.60	1.53	8.69	.45	9.07-	.90	23.45	9.86	189.07	66.73
PRINCEVILLE RANCH 1117		15.31	6.98	9.25	1.87	5.78-	3.80	5.27-	1.51	15.01	8.67	5.69	.67	7.99	1.82	6.01-	1.31	5.99	1.17	3.69-	2.61	7.51-	.34	13.81	4.61	101.31	16.22
PUEHU RIDGE 1040		5.65		4.18		.30		.38		1.91		1.24		.09		1.43		.34		3.68		6.39		1.17		26.76	
PUHI 1013	A	7.81		5.34		3.46		3.99		5.46		1.71		4.43		1.64		3.87		4.54		7.54		9.88		59.67	
RESERVOIR 6 1004	A	7.16-	.28	9.65	2.45	3.10-	3.91	5.72	.64	5.17	.69	2.15-	1.61	6.55	1.21	3.92-	3.03	5.62	.87	4.17-	1.90	8.85	2.10	7.44-	.58	69.50-	3.35
WAHIAWA 930	A	4.29-	.74	5.33	1.07	.47-	3.03	4.06	2.14	1.53	.03	.48-	.84	1.59-	.10	.62-	1.90	1.42-	.29	2.08-	.94	4.74	1.65	1.13-	3.36	27.74-	6.31
WAHIAWA MOUNTAIN 990	A	32.50	19.21	E24.16	11.83	E13.09	.08	9.25-	1.99	9.50-	1.33	6.13-	5.15	17.00	3.02	1.15-	14.52	12.75	1.96	5.75-	5.96	14.25	1.45	9.50-	4.62	155.03	3.98
WAIAHI LOWER 1054		11.49		17.37		7.64		9.99		9.34		3.03		12.20		8.30		9.32		5.55		12.25		7.87		114.35	
WAIAHI UPPER 1052		14.97		24.16		10.14		13.05		11.49		3.97		13.67		10.52		12.84		6.25		12.42		9.15		142.63	
WAIAWA 943		3.87-	.05	2.43-	.23	.09-	2.24	.14-	.98	.20-	.64	.31-	.19	.13-	.40	.17-	.92	.13-	.59	.15-	1.80	4.22	2.61	.43-	2.85	12.27-	8.28
WAILUA KAI 1065	A	4.07		3.32		1.78		1.71		3.18		1.07		4.36		.75		2.72		3.12		7.48		4.34		37.90	
WAIMEA 947		3.43-	.25	3.69	.29	.16-	2.20	.03-	1.10	.57-	.28	.32	.04	.17-	.30	.00-	1.04	.43-	.23	.51-	1.40	3.20	1.46	.21-	3.14	12.72-	8.15
WEST LAWAI 931	A	6.68	1.18	7.63	2.92	1.36-	3.04	6.78	4.26	3.18	1.15	1.11-	.71	2.67	.24	1.34-	1.93	2.50	.03	1.72-	1.97	6.45	2.15	3.52-	1.78	44.94	2.50
15LAND		11.37		9.10		4.63		5.05		5.48		2.68		5.39		3.11		4.34		3.82		8.07		6.75		69.79	
• • •																											
15LAND OF OAHU																										
AIEA FIELD 625 761	A	12.46	7.60	3.16-	1.75	3.08-	1.51	2.00-	.82	2.28-	.23	1.56-	.53	3.92	1.08	1.94-	1.24	1.54-	.64	1.71-	2.20	6.91	2.73	3.52-	1.90	44.08	.59
BERETANIA PUMPING STA		8.85		2.68		3.64		1.41		1.13		.72		1.61		.91		1.42		.65		1.70		3.60		28.31	
CAMP 84 807	A	17.21		5.03		1.22		.52		3.71		.62		.85		1.38		1.19		1.43		5.18		2.33		40.67	
CHURCH COLLEGE LAIE		17.26		5.61		3.39		2.06		2.22		2.77		E 5.68		7.55		10.30		3.50		6.30		20.10		E 86.74	
COCONUT 15LAND 840.1		9.48		12.90		4.79		2.63		2.62		3.21		2.28		2.55		2.06		1.85		2.63		3.67		50.67	
EWA PLANTATION 741		12.95	9.16	2.10-	.99	1.60-	1.05	.18-	.99	1.61	.58	.40	.17	.85	.37	.04-	.60	.90	.24	.34-	1.59	4.28	2.01	.69-	2.16	25.94	5.15
HELEMANO INTAKE 881	A	21.41	13.07	17.68	8.14	8.32-	.58	11.65	5.79	3.97-	.81	2.73-	1.59	8.24	3.48	4.45-	1.19	4.27	.50	4.33-	1.87	6.90-	.42	9.18	.26	103.13	24.78
HOKULOA 725.2	A	15.51		2.01		1.79		.72		3.40		1.41		1.69		.54		2.01		2.36		5.67		3.39		40.50	
HONOLULU 085ERV 702.2		11.94		.44		1.77		.40		.51		.36		.28		.02		.76		.73		6.92		.31		24.44	
HONOLULU W8FC 703	R	8.20	4.44	.48-	2.82	3.00	.11	.10-	1.21	.81-	.18	.23-	.10	.63	.19	.11-	.78	.87-	.12	.96-	.88	5.77	3.61	1.34-	1.65	22.50	.61
HONOLULU SUBSTA 704		8.60	4.74	1.60-	1.74	3.52	.40	.66-	.88	.77-	.23	.66	.04	1.06	.24	.65-	.56	1.16	.11	.60-	1.59	4.70	2.57	2.73-	.35	26.71	2.75
H S P A EXP STA 707		9.33	4.34	3.52-	.90	3.38-	.87	2.35-	.17	1.31-	.79	1.40-	.05	2.14	.28	1.87-	.41	1.80-	.04	.83-	2.19	5.06	1.96	4.41-	.06	37.40	1.10
KAHANA 883	A	25.84	8.09	55.34	36.06	31.58	9.15	26.54	4.68	32.94	12.05	11.92-	5.03	25.63	2.61	17.33-	7.36	20.81	2.79	13.32-	4.47	12.76-	3.07	27.36	6.43	301.37	59.73
KAHUKU 912	A	12.12	6.98	4.25-	.82	3.07-	1.67	1.81-	1.04	3.23	1.07	1.74	.33	3.08	1.19	1.37-	1.29	2.06	.21	2.23-	1.93	2.30-	1.43	6.47	2.19	43.73	3.79
KAILUA FIRE STA 791.3		11.58		4.66		2.75		1.57		2.11		1.89		3.60		.76		1.74		1.80		E 2.26		E 5.47		40.19	
KALIHI RES SITE 777		13.54	4.35	28.34	19.08	19.14	9.67	6.88-	.87	10.48	3.31	6.88	2.23	10.64	4.63	6.66-	1.36	9.82	3.06	5.50-	1.94	7.08-	.11	12.62	4.00	137.58	46.05
KANEOHE MAUKA 781		15.76	8.46	21.53	14.31	7.71	.45	5.11-	.42	5.32	.77	3.20	.26	3.81-	.50	4.53	.24	4.49	.66	2.92-	2.83	4.03-	1.25	7.93	1.08	86.34	21.25
KANEOHE RANCH 838	A	14.87		20.66		7.40		3.03		6.45		2.14		3.38		2.55		3.19		2.59		3.34		5.20		74.80	
KAPALAMA 773	A	7.79	1.94	.48	.48	7.00	.76	4.53	.50	2.36-	1.28	3.55	.49	5.86	2.44	2.20-	1.73	3.43	.29	2.34-	1.95	6.43	2.01	5.43-	1.42	58.32	2.53
KAWAIHAPAI 841	A	9.45	4.81	4.31-	.88	2.91-	.97	1.09-	.91	1.11-	.26	.85-	.02	1.23	.40	.55-	1.04	1.96	1.10	1.59-	1.13	5.40	2.75	2.77-	1.11	33.23	2.80
KAWAI IKI INTAKE 880.2	A	E12.00		E 2.40		E 1.60		11.50		E 2.65		E 2.85		E 8.44		E 3.06		7.50		3.50		5.30		6.00		E 66.80	
KEMOO CAMP 8 855	A	10.65	4.77	4.95-	1.97	1.94-	3.38	1.39-	1.33	.67-	1.04	.81-	.31	.90-	.24	.43-	1.73	1.19-	.14	1.00-	2.24	4.43	.61	3.80-	1.72	32.16-	8.72
KODLAU OAM 833		20.51	12.72	17.58	8.54	10.36	.38	11.61	4.66	E 5.86-	.25	E 6.71-	1.51	17.20	7.42	10.13	1.60	9.03	2.79	5.45-	2.35	E14.35	6.36	E12.01	2.01	140.80	42.37
LUALUALEI 804		12.55		.63		E .47		E .09		1.60		.48		.86		.19		.73		.62		4.37		.91		23.50	
LUALUALEI WTR TUNNEL	A	E 7.87		E .45		E 2.93		E 2.75		E 3.48		1.43		3.10		1.00		E .74		E 1.82		E 3.14		E13.25		E 41.96	
LUNALILO HOME 724.2		4.69		2.25		2.44		1.70		E 1.04		E .06		1.96		E .74		E 2.38		.69		2.47		3.62		24.04	
MAKAHA KAI 796	A	9.90	6.14	E .85-	2.27	E .74-	1.68	E .59-	.47	E 1.36	.71	E .67	.34	.20-	.06	.02-	.76	.55-	.12	.67-	1.58	3.07	1.38	1.04-	1.69	E 19.66-	.06
MAKAHA VALLEY 800.1	A	9.67		-		-		-		-		-		-		-		-		-		-		-		-	
MAKAHA PUMP 800.2	A	-		-		.47		-		-		-		-		-		-		-		-		-		-	
MAKAPUU POINT 724		9.90	6.31	2.07-	1.46	3.04-	.88	1.09-	.69	.67-	.36	.63	.13	.68-	.16	.53-	.49	1.42	.71	.63-	2.37	2.67	.38	4.60	1.29	27.93	2.41
MANOA 712		11.08	4.98	10.92	5.12	9.97	4.16	7.93	3.53	2.65-	1.37	4.61	1.62	6.22	2.40	6.75	2.33	4.68	1.49	2.69-	1.73	6.62	2.05	10.65	4.41	84.77	28.99
MANOA TUNNEL 2 716		15.00	4.21	27.86	17.09	30.78	17.99	14.06	1.35	9.82-	3.03	12.38	2.94	15.56	3.48	12.52-	.52	12.74	3.52	7.34-	3.16	10.46-	.15	17.38	4.52	185.90	48.24
MOANALUA 770		9.16	4.52	2.37-	2.27	3.64-	.58	1.59-	.86	1.67-	.29	.80-	.37	2.42	1.07	.95-	.81	1.56-	.28	1.36-	1.66	E 6.79	3.78	E 3.44-	1.17	35.75	1.08
NUUANU RES 4 783		10.20-	.61	12.46	1.41	13.20	1.19	2.84-	7.17	3.82-	6.01	4.42-	2.73	5.02-	3.65	2.54-	8.05	3.60-	4.93	2.00-	6.93	5.58-	3.73	6.50-	4.56	72.18-	45.77
NUUANU RESERVOIR 5 775	A	13.63	5.67	12.90	4.22	14.48	6.08	4.86-	1.70	3.18-	3.33	5.33-	.51	8.08	1.55	6.61-	.92	5.22-	.05	3.23-	3.10	8.33	1.95	11.43	2.50	97.28	12.36
OPAEULA 870	A	11.92	5.19	12.25	3.84	3.57-	2.64	3.69-	.47	2.44-	.84	2.12-	.48	5.36	2.06	2.95-	.96	2.41-	.03	2.78-	2.07	4.50-	.51	7.99	1.02	61.98	4.11
PALOLO VALLEY 718		14.54	3.62	23.48	12.48	27.26	14.41	13.08	.57	7.60-	4.52	8.48-	.31	14.28	3.47	9.90-	1.84	10.74	2.31	5.70-	5.13	9.18-	1.93	18.02	4.71	162.26	27.84
PAUOA FLATS 784		18.04	5.54	29.44	16.17	30.80	15.97	14.82	1.12	10.56-	3.24	11.30-	1.49	18.92	4.49	15.52-	1.24	16.94	5.17	7.48-	5.07	13.24	.90	19.60	5.06	206.66	43.38
PORTLOCK ROAD 724.4		11.54		2.82		1.46		.91		1.16		1.00		1.48		.63		1.14		.36		E 3.20		E 6.11		31.81	
PRI WAHIAWA 820.2	A	16.67		5.93		2.48		1.70		1.90		.83		2.45		1.20		1.43		1.19		5.36		2.50		43.04	
PUNALUU 884	A	18.09		E12.14		5.67		4.12		4.45		2.82		5.86		3.32		4.41		3.23		2.46		8.65		75.22	
PUNCHBOWL CRATER 709	A	9.49		3.50		4.32		2.01		1.54		1.01		2.21		1.56		2.10		1.42		5.15		4.39		38.70	
ST STEPHENS SEM 788		14.14		21.29		8.71		3.76		7.91		3.58		4.56		3.22		4.73		2.64		4.49		9.08		88.11	
TANTALUS 2 780.5		13.08		16.37		10.80		10.47		4.70		6.57		12.36		10.73		8.04		3.81		9.08		12.69		124.00	
UNIV OF HAWAII 713	A	8.75	3.51	5.81	1.15	4.44-	.33	3.70	.64	1.65-	1.12	2.40	.76	2.43	.18	2.02-	.75	2.37	.34	1.10-	2.49	5.31	1.84	4.16-	.75	44.14	2.97
WAHIAWA OAM 853	A	14.14		4.29		1.89		6.18		2.43		.90		2.03		.85		1.41		2.20		4.90		2.86		44.08	
WAIAHOLE 837	A	21.01	8.64	33.10	19.98	16.62	1.79	12.22-	1.08	12.37	.22	7.13-	.87	9.31-	1.63	7.63-	4.20	9.81	.02	8.57-	3.51	4.91-	6.92	14.33	.04	157.01	12.46

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

Station		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
		Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
WAIALAE KAHALA 715		8.20		1.48		.87		1.36		1.19		.41		1.33		1.31		1.92		.25		3.77		3.53		25.62	
WAIALUA 847	A	7.94	3.84	4.77-	.04	2.69-	.81	1.07-	.65	.57-	.53	.47-	.25	.72-	.02	.52-	.86	1.27	.48	.77-	1.92	3.48	1.13	2.30-	1.64	26.57-	1.27
WAIANAE 798	A	14.37	10.58	.52-	2.61	-		-		-		-		-		-		-		-		-		-		-	
WAIANAE MAUKA 803	A	17.83	9.05	2.98-	4.67	3.72-	4.14	3.66-	1.13	4.43	.28	2.39-	.73	5.63	1.81	1.74-	2.62	3.40	.13	5.30-	.08	8.35	3.56	10.63	1.59	70.06	3.05
WAIAWA 836	A	19.92	8.28	21.53	8.59	12.23-	1.61	4.88-	6.52	8.82-	3.02	9.86-	.98	18.38	5.08	14.84	.43	8.45-	1.52	7.30-	3.72	14.13	2.03	18.63	3.14	158.97	10.18
WAIKANE 885	A	24.04	12.17	41.25	28.03	17.83	2.59	16.35	2.35	15.87	4.01	8.34	.36	13.26	2.50	9.15-	2.52	12.23	1.69	9.18-	2.77	4.73-	6.43	21.17	6.93	193.40	48.91
WAIKIKI 717.2		8.30		.83		.52		.50		1.83		.84		.79		.60		1.13		.18		3.90		1.49		20.91	
WAILUPE RESV. 723.2	A	9.92		4.63		3.94		2.89		2.17		2.33		3.30		2.31		2.63		1.16		3.58		5.99		45.05	
WAIMANALO 794	A	12.08		7.05		3.81		1.78		3.05		1.53		1.99		1.09		-		-		-		-		-	
WAIMANALO EXP FARM		-		-		-		-		-		-		-		-		1.60		1.08		2.44		5.37	
WAIMEA 892	A	10.07	4.69	9.44	3.54	4.72-	.62	3.16-	.09	2.22-	.44	1.64-	.90	4.00	1.01	2.61-	.83	2.85	.93	2.70-	1.21	5.08	.91	6.32	.80	54.81	7.79
WAIPAHU 750	A	13.76	9.60	1.62-	2.07	1.21-	1.97	.33-	1.55	1.77	.57	.26-	.34	.51-	.16	.25-	.98	1.02-	.06	1.18-	1.16	5.31	2.75	1.39-	2.15	28.61	2.48
WILHELMINA RISE 721		9.22	4.59	4.86	.84	4.86	.34	4.08	.88	1.52-	.92	3.10	1.64	3.44	1.58	3.50	1.25	2.60	.94	1.10-	2.18	4.46	1.42	5.84	1.56	48.58	11.94
ISLAND		13.39		9.29		6.15		3.88		3.36		2.45		4.29		2.74		3.23		2.36		5.14		5.83		62.11	
* * * ISLAND OF MOLOKAI																											
KALAUPAPA 563	A	6.42		7.95		18.13		3.48		1.51		.15		1.21		1.10		3.14		1.34		1.81		3.46		49.70	
KAUNAKAKAI 536	A	7.44		.00		.00		.00		.00		.00		.00		.00		.00		.00		.00		.54		7.98	
KEONELELE PENS 551	A	8.27		.39		2.38		.00		.00		.42		.38		.00		2.20		1.26		2.00		1.90		19.20	
KUALAPUU 534	A	11.52	7.38	3.11-	.53	5.65	1.09	2.12-	.94	2.15	.57	1.17	.50	.97	.09	.58-	.64	1.32	.54	2.48	.06	1.36-	1.74	3.47-	.79	35.90	5.59
MAPULEHU 542		9.93	6.07	3.86-	.24	4.51	.29	2.68-	.37	1.71-	1.00	1.94-	.25	3.23	.29	3.82	.92	3.64	1.04	2.67-	.74E	1.26-	2.39E	4.44	.23	43.69	3.85
MAUNALOA 511	A	9.22	4.95	.55-	2.53	1.13-	2.64	.96-	1.35	.53-	.94	.50-	.25	.93-	.33	.11-	1.09	.91-	.20	.62-	1.75	.62-	2.13	1.74-	1.76	17.82	10.02
MOLOKAI AP 524		10.03		E 1.83		3.04		1.12		.95		1.68		.77		.19		1.32		1.61		.78		3.05		E 26.37	
PUUOHOKU RANCH 542.1		12.45		3.00		3.87		2.02		1.08		.70		2.53		2.46		3.16		1.73		1.15		4.54		38.69	
WAIKOLU 540	A	17.34		17.74		16.72		12.62		6.81		3.45		5.77		3.77		6.11		6.73		3.68		17.74		118.48	
ISLAND		10.18		2.34		3.58		1.72		1.34		1.32		1.48		1.18		1.80		1.85		1.01		3.18		30.98	
* * * ISLAND OF LANAI																											
KANEPUU 690	A	7.48		.48		1.01		.29		.07		1.15		1.16		.86		.83		.25		.37		4.82		18.77	
KAUMALAPAU HARBOR 658	A	6.41		T		.41		.00		.06		.10		.44		.26		.03		.00		.38		.75		8.84	
LANAI CITY 672	A	11.16	6.54	1.91-	1.82	3.34-	.99	.93-	1.99	2.01-	.66	1.67	.25	3.20	1.48	.53-	1.25	1.96-	.31	1.33-	1.62	.52-	2.34	4.73	1.01	33.29	1.70
LANAIHALE 684	A	6.74		2.63		6.45		1.55		2.76		.53		2.19		.94		1.36		2.43		1.10		1.34		30.02	
MAHANA 694	A	10.61		.29		1.08		.09		.04		.56		.33		.02		.30		.29		.38		2.14		16.13	
MALAUEA 676	A	10.28		.39		.00		.00		.37		.00		.38		1.14		T		.06		.24		.66		13.52	
WAIAKEAKUA 685	A	17.64		1.17		2.27		1.27		.66		.17		.53		.23		.69		.69		.51		1.66		27.49	
ISLAND		11.16		1.91		3.34		.93		2.01		1.67		3.20		.53		1.96		1.33		.52		4.73		33.29	
* * * ISLAND OF MAUI																											
AUWAHI-252	A	12.34		2.90		2.64		.16		1.30		.62		.18		.56		1.49		.72		.92		2.06		25.89	
HALEAKALA 8 E S 434	A	13.90	6.50	24.18	15.06	17.55	8.34	18.70	10.74	5.40	1.00	2.15-	.63	10.04	5.91	4.69	.01	3.54	1.24	2.38-	1.91	5.08-	1.16	20.53	10.07	128.14	55.17
HALEAKALA RANCH 432	A	10.75	4.92	8.61	2.13	7.37	1.59	8.66	4.04	2.63	.79	1.14	.24	4.24	2.72	1.42-	.75	1.49	.17	1.36-	1.31	2.81-	.63	11.26	4.63	61.74	18.54
HALEAKALA RS 338		15.03		10.17		6.64		6.66		1.69		.72		6.02		3.31		2.31		.72		2.88		16.01		72.16	
HALEAKALA SUMMIT 338.4		18.14		13.08		3.10		1.79		.70		T		.46		1.10		1.32		1.05	E	.98	E	6.16		47.88	
HALIIMAILE 423	A	10.11		9.08		7.92		6.44		2.71		1.06		4.32		2.40		1.94		.93		2.68		9.04		58.63	
HAMAKUAPOKO 485		8.34	3.57	9.62	4.92	12.21	6.67	5.54	.65	2.46-	.82	1.10-	1.67	5.36	1.90	6.56	2.86	4.47	2.33	2.01-	1.46	2.50-	1.53	9.17	3.08	69.34	20.50
HANA 354		11.87		8.49		7.87		7.88		2.53		1.66		7.31		5.97		5.55		2.58		3.46		9.15		74.32	
HANA AIRPORT 355		11.87		14.11		9.83		7.05		8.71		3.21		8.80		7.93		5.65		2.50		4.17	E	12.48	E	91.65	
HANAHULI 281		16.74		20.64		10.50		9.93		6.71		3.59		12.08		9.57		7.81		3.84		5.01		6.91		113.33	
HOLUA CABIN 259.5	A	22.60		12.70		2.11		8.24		1.21		.81		4.03		3.57		1.15		2.18		2.52		12.52		73.64	
HONOKOHAU 480	A	9.82		E11.76		E 9.24		E11.55		E 3.85		16.24		5.20		11.10		9.50		5.10		6.30		15.00		114.66	
HONOKOHUA 493	A	11.83	7.77	7.61	3.87	6.61	2.53	2.55-	.63	1.44-	.82	1.51-	.17	3.63	1.25	4.23	1.65	1.85	.17	1.08-	1.60	1.28-	2.04	5.76	1.11	49.38	13.09
HONOMANU GULCH 341	A	35.40		15.00		E21.00		E24.00		2.60		1.40		14.60		11.20		5.00		2.00		5.00		27.00		164.20	
KAANAPALI AIRPORT		8.19		E 1.02		3.33		E 1.74		.22	E	1.01		.80	E	.44		.34	E	.34		.43		2.21	E	20.07	
KAHOMA INTAKE 374	A	15.13	5.78	36.46	26.54	30.23	18.65	12.67	3.54	4.00-	4.31	3.81-	3.34	16.81	8.05	7.17-	.50	8.78	4.17	3.50-	2.34	4.61-	3.14	18.60	5.42	161.77	58.52
KAHULUI WR AP 398	R	7.75	4.61	3.51	.97	3.17	.95	1.79	.35	.27-	.42	.37	.19	.53	.10	.71	.36	.49	.24	.31-	.56	.50-	1.02	5.81	3.11	25.21	8.88
KAILILI 436	A	25.36	14.54	35.29	21.95	E31.94	16.74	E22.64	7.94	11.03	.75	2.48-	4.31	16.54	7.23	14.89	5.18	6.62	1.16	2.48-	5.07	8.82-	1.92	29.50	12.15	207.59	76.34
KAILUA 446		16.26	7.72	29.14	18.67	20.07	7.89	17.39	5.86	8.20-	1.72	4.66-	2.91	13.85	3.70	15.45	4.14	10.48	2.98	3.52-	5.80	7.05-	3.00	15.75	3.90	161.82	41.43
KAUAULA INTAKE 375	A	11.54	5.48	6.45	.64	3.00-	2.15	3.48-	.13	1.04-	1.73	.37-	1.45	3.77	1.52	1.96-	.94	2.06	.33	1.42-	1.64	1.05-	2.46	2.91-	4.33	39.05-	6.86
KEAHUA 410		7.75	4.00	2.96-	.17	2.62-	.20	2.36	.38	1.01	.22	.22-	.04	.92	.38	.43-	.13	.65	.25	.36-	.85	1.68-	.15	6.10	2.73	27.06	6.42
KEANAE 346	A	21.80	6.57	71.82	52.41	63.47	41.31	42.40	17.30	21.20	.10	9.70-	4.07	22.05	2.18	32.60	10.85	15.80	3.57	5.10-	10.25	11.10-	7.72	28.01	5.69	345.05	117.94
KEAWAKAPU BEACH 260.2		10.13		.05		.00		.10		.00		.00		.02		.00		.03		.06		.05		.27		10.71	
KIHEI 311		9.17	6.19	.09-	2.06	.09-	1.79	1.16	.33	.00-	.18	.03-	.01	T	.10	.03-	.25	.00-	.12	.31-	.50	.31-	.74	2.04	.13	13.23	.90
KIPAHULU 258		16.03	6.09	24.74	15.81	9.24-	.32	6.75-	.29	4.00-	3.94	3.59-	4.17	11.06	1.53	10.13	1.67	8.53	1.68	2.67-	5.63	4.19-	4.91	11.32	.41	112.25	7.93
KULA HEIGHTS 323.2		10.64		.71		2.12		1.07		.34		.47		.83		.55		.35		.90		.21		2.87		21.06	
KULA SANATORIUM 267		14.77	10.15	.15-	3.73	2.95-	.35	.66-	2.03	.93-	1.17	1.34-	.35	5.03	2.97	.95-	1.34	.26-	1.71	.55-	1.71	1.76-	.24	1.73-	1.30	31.08	.81
LAHAINA 361		7.78	4.99	.32-	1.77	.18-	1.75	.10-	.95	.00-	.35	.00-	.06	.00-	.11	.00-	.42	.00-	.29	.00-	1.00	.25-	.96	1.46-	.83	10.99	3.50
LAUNIUPOKO INTAKE 376	A	14.20	9.04	E13.11	8.35	E 5.89	.88	8.60	5.06	1.40-	1.43	1.30-	.54	2.90	.27	2.90-	.75	3.50	1.97	1.00-	1.50	2.40-	1.52	8.60	2.66	65.80	22.49
LAUNIUPOKO VILLAGE 372	A	9.33	6.75	.20-	1.83	.38-	1.48	.14-	.77	.00-	.34	.00-	.13	.18	.09	.00-	.47	.05-	.18	.00-	.97	.75-	.38	.98-	1.40	12.01	1.11
LUPI UPPER 442	A	18.20	5.72	43.20	29.01	35.20	17.66	26.00	8.27	10.90-	3.96	6.70-	3.79	16.90	2.92	18.80	3.37	13.00	3.88	3.90-	8.02	8.80-	5.89	21.60	4.74	223.20	53.91
MAHINAHINA 466	A	12.03	6.92	7.18	2.26	9.26	3.70	5.68	1.22	2.20-	.67	.82-	1.11	5.78	3.07	2.67-	.10	2.11	.42	1.33-	1.43	2.03-	1.66	7.88	1.08	58.97	13.70
NAKALELE -FLO 60-497	A	11.54		4.48		3.55		2.88		.97		1.28		2.85		4.61		2.27		.92		1.46		4.09		40.90	
OLINDA 332	A	12.34		7.02		7.23		8.41		2.02		1.42		5.23		1.38		1.98		2.28		2.11		13.41		64.86	
OLOWALU 296		8.10	5.60	.34-	1.34	.26-	1.54	.24-	.53	.00-	.22	.00-	.10	.04	.01	.02-	.23	.00-	.16	.02-	.69	.04-	1.10	.60-	1.31	9.66	1.61
OLOWALU GULCH 377	A	6.50	.15E	7.59	.80E	3.41-	4.33	6.50	.01	1.20-	2.81	1.20-	1.80	1.40-	3.54	1.20-	3.04	4.00	1.10	.40-	3.41	.20-	4.87	4.00-	5.43	37.60	27.47
PAAKEA 350		22.13	6.87	65.04	47.52	51.94	30.14	32.39	11.89	17.95-	.65	9.37-	3.05	21.45	4.20	25.52	6.68	18.05	5.75	4.73-	9.93	10.89-	5.88	27.44	7.52	306.90	101.06
PAIA 406		7.13	3.26	4.75	1.19	6.93	2.88	3.16	.03	1.39-	.74	.39-	.80	1.87-	.02	2.47	.55	1.39	.11	.80-	1.36	1.58-	1.33	7.09	2.87	38.95	6.66
PANILEIHULU 259.2	A	11.25		30.75		5.97		8.62		4.50		.60		4.62		2.25		4.87		1.97		5.70		11.80		92.90	
PAUWELA 490	A	10.49	4.42	15.48	9.60	14.63	7.86	7.69	1.50	4.31-	.86	2.38-	1.73	8.18	3.05	8.07	2.58	5.29	1.99	2.50-	1.86	2.55-	2.81	10.52	3.44	92.10	27.18
POHAKEA BRIDGE 307.2	A	8.75		1.48		.68		1.11		.02		.02		.02		.01		.00		.10		.35		1.13		13.67	
POLIPOLI SPRINGS 267.2	A	25.28		31.70		2.38		1.77		2.30		.52		1.25		3.10		2.28		2.30		.93		3.40		77.21	
PUOHOKAMOA 2 343	A	E53.72	35.68	E14.28	9.23	73.80	47.10	41.60	12.99	25.00-	.45	9.20-	8.06	40.20	16.06	36.00	11.57	19.80	4.16	7.60-	9.29	14.40-	7.34	45.60	17.05	381.20	110.24
PUU KUKUI MAKAI 472	A	13.40	5.02	E26.40	17.10	E21.60	11.27	11.20	2.47	2.00-	5.11	1.20-	4.29	14.00	6.91	6.00-	1.21	7.20	3.22	2.00-	2.73	3.00-	3.97	16.20	4.65	124.20	33.33
PUUNENE 396		8.88	5.70	1.99-	.89	1.70-	.76	1.95	.48	.20-	.45	.23	.12	.21-	.10	.23-	.10	.07-	.20	.32-	.68	.19-	1.35	3.13	.50	19.10	2.27
SPRECKELSVILLE 400.2		7.91	4.38	4.10	.97	4.15	.87	2.40	.27	.59-	.55	.22-	.24	.95	.09	1.33	.58	.71	.12	.64-	.75	.88-	1.13	6.21	3.06	30.09	7.67
TWIN GATES 261.3	A	11.40		.00		.00		.00		.00		.00		.00		.00		.00		.00		.00		.80		12.20	
UKULELE 333	A	23.08	15.48	6.18-	2.82	E18.35	10.32	E 7.90	1.98	2.91-	.94	2.00-	.41	9.09	4.73	6.41	.93	2.70-	.73	1.08-	3.96	3.50-	2.10	18.00	9.41	101.20	31.89
UKUMEHAME 301	A	9.43	6.63	.50-	1.34	.98-	1.06	.14-	.84	.00-	.35	.00-	.09	.13	.07	.00-	.40	.00-	.20	.00-	.89	.07-	1.19	.91-	1.28	12.16	.94
ULUPALAKUA RANCH 250		13.17		.89		2.36		.28		1.13		.92		3.47		1.25		2.16		1.21	E	.24	E	3.09		30.17	
WAHIKULI 364	A	9.64	6.33	1.08-	1.79	2.74	.41	.18-	1.48	.03-	.54	.00-	.25	.73	.40	.40-	.40	.03-	.49	.04-	1.11	.54-	1.06	2.13-	.96	17.54	.96
WAIEHU CAMP 484	A	8.82	4.91	5.40	1.10	4.87	.51	3.12-	.15	1.21-	.55	.97	.55	1.76	.78	2.42	1.21	.34-	.53	1.50-	.77	.94-	1.79	4.44-	.51	35.79	6.82
WAIHEE VALLEY 482	A	9.67	4.55	6.94	2.13	7.74	1.91	3.48-	.90	2.88	.15	1.36	.45	2.57	.78	3.30	1.29	1.41-	.14	2.18-	1.23	1.58-	2.44	5.33-	.65	48.42	5.97
WAIKAMOI 449	A	18.70	6.23	58.05	42.49	E41.00	22.42	E27.30	8.64	E15.38-	1.01	8.72-	2.37	19.60	4.31	24.10	7.55	15.30	4.48	4.10-	9.16	9.10-	5.91	24.48	7.02	265.83	84.69
WAIKAMOI OAM 336	A	27.22		E43.63		42.84		60.37		11.53		7.92		34.48		17.00		18.45		6.81		8.31		37.47		E316.03	
WAIKAPU 390	A	8.61	4.58	4.48	.72	2.13-	1.41	2.16-	.38	.28-	.83	.34	.14	.35-	.20	.15-	.62	.02-	.40	.33-	1.36	.66-	1.50	3.09-	.85	22.60	2.11

See Reference Notes Following Station Index

Table 2—Continued

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

Station		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
		Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
WAILUKU 392		7.97	4.18	3.82-	.03	2.96-	.79	2.65-	.05	1.34	.08	.85	.51	.45-	.26	.75-	.11	.16-	.44	.55-	1.31	E .35-	1.99	3.62-	.70	25.47-	.91
WAIOPAI RANCH 256	A	9.93	5.96	8.61	5.21	2.38-	.62	.00-	1.92	1.64	1.06	.00-	.22	.25-	.08	.69-	.25	.18-	.77	.82-	.82	2.08-	.28	2.36-	1.01	28.94	6.26
1SLAND		12.33		15.03		11.76		8.58		4.21		2.27		6.47		6.44		3.91		1.58		3.12		9.78		85.48	
• • • 1SLAND OF HAWAII																											
AMUA UMI 75	A	6.80	4.73	2.40	.23	1.40-	1.59	1.10-	1.18	2.10-	.36	.80-	.92	1.00-	.87	.90-	2.09	.10-	1.52	.10-	1.79	.23-	1.37	1.35	.07	18.28-	6.66
AWINI 182.1	A	18.42	7.80	39.61	28.18	29.13	13.14	28.46	11.53	8.23-	4.18	7.31-	.86	9.76-	2.90	17.59	5.28	6.40	.07	2.91-	5.77	7.20-	3.01	11.70-	2.19	186.72	47.09
EAST HONOKANE 183.2	A	21.42	8.29	25.00	12.07	23.61	4.68	23.64	5.10	8.12-	6.15	7.23-	5.47	18.43	2.17	20.76	4.37	6.93-	1.67	5.63-	3.90	3.56-	8.42	11.75-	6.31	176.08	4.76
HAINA 214		7.51	2.45	24.54	17.62	15.04	6.48	14.62	6.95	4.66-	.26	4.72	2.80	4.69	1.23	10.31	5.67	3.28	.99	1.56-	3.69	5.40-	.27	5.83-	1.87	102.16	38.10
HAKALAU 142		10.92	.27	49.14	35.56	31.80	16.91	21.08	8.53	6.94-	2.91	2.52-	4.31	12.74	2.91	19.50	7.72	6.61-	1.31	2.15-	9.10	6.72-	5.62	11.03-	3.59	181.15	45.06
HALEMAUMAU 52	A	20.40		10.34		5.22		2.98		1.70		1.56		1.87		3.94		1.70		.94		1.86		1.41		53.92	
HALEPULA 117	A	3.05-	.67	7.11	1.37	4.25-	2.71	4.58	.51	.94-	1.25	1.11	.08	1.55-	.08	6.00	2.23	.43-	1.21	.33-	3.18	1.45-	1.80	2.29-	3.16	33.09-	9.87
HALEPOHAKU 111	A	-		-		-		-		-	.09	2.63		2.43		.54		.03		.68		1.56		-		-	
HAWAII VOLCNS NP HQ 54		22.34	10.12	28.37	18.12	14.29	2.31	11.10	2.70	5.00-	1.07	1.94-	2.59	9.13	4.01	10.59	3.00	5.17	.08	1.99-	4.89	6.24-	3.94	3.76-	6.38	119.92	21.47
HAWI 168	A	8.41	3.71	10.74	6.40	9.08	3.86	5.91	.87	2.53-	1.03	2.24-	.72	3.41-	.52	6.21	2.02	2.31	.04	1.35-	2.26	5.00	.98	4.59-	1.33	61.78	12.02
HILO WB AIRPORT 87	R	19.66	7.84	43.66	30.72	30.64	15.94	14.57	2.65	7.83-	1.50	2.76-	4.03	11.75	1.93	17.50	6.05	7.24-	1.26	3.19-	7.61	6.33-	7.04	8.10-	7.08	173.23	36.61
HOLUALOA 70	A	17.20	12.69	3.25-	1.06	6.20-	.04	6.40-	.77	7.60-	2.40	6.80-	2.91	8.60	.22	16.40	8.55	5.20-	2.91	1.20-	4.67	2.50-	1.64	2.40-	.06	83.75	5.00
HOLUALOA BEACH 68	A	6.12	3.82	.00-	1.86	.58-	1.92	2.59	.28	1.28-	1.37	3.99	.66	5.11	2.57	3.18	.32	4.85	2.14	.97-	1.51	1.52-	.25	2.73	1.17	32.89	4.05
HONAUNAU 27		7.25		1.24		2.48		5.32		6.37		3.30		9.44		13.51		7.22		5.40		3.43		3.29		68.25	
HONOHINA 137		11.99	.24	54.59	38.94	39.48	21.54	22.49	7.00	8.63-	3.68	3.23-	4.49	13.27	1.30	23.97	10.23	7.06-	2.15	2.21	10.66	6.14-	7.57	13.03-	4.16	206.09	46.54
HONOKANE 181.1	A	20.06	8.51	36.70	24.17	25.91	8.83	29.26	12.61	5.38-	6.01	6.45-	2.55	12.82	.14	16.44	4.02	6.33	.62	3.62-	4.89	8.08-	2.55	12.74-	3.66	183.79	39.24
HONOMU MAUKA 138		23.38	7.32	81.55	63.23	48.29	27.17	35.15	16.17	14.05-	1.20	6.43-	4.06	18.89	3.89	31.79	14.14	13.31	1.58	4.35-	11.36	9.94-	7.65	16.28-	5.32	303.41	103.91
HONUAULA 71	A	12.20	8.43	4.70	1.27	4.80	.70	1.20-	1.79	2.40-	2.23	3.10-	1.00	2.80-	1.27	6.80	3.46	1.20-	2.14	.30-	1.92	1.72	.08	.80-	.75	42.02	2.84
HUALALAI 72	A	3.80	2.04	5.40	3.55	2.20	.15	.84-	.55	1.78-	1.08	1.10-	.31	.80-	.71	1.22-	.20	1.50-	.25	.00-	.94	.98	.38	.22-	.40	18.84	1.68
HUEMUE 92.1	A	10.00	5.87	1.83-	.88	3.12-	.59	3.50	.49	3.20-	1.47	3.27-	1.23	2.15-	.35	.00-	2.72	4.19	.96	1.63-	1.96	.00-	2.93	3.04	.68	35.93	4.13
KAALA 1K1 12	A	15.66		5.51		2.62		3.59		5.13		2.58		1.37		6.35		4.25		5.11		4.41		1.67		58.25	
KAAWALOA 29	A	6.99	3.26	1.06-	2.34	1.13-	3.77	4.59-	.37	5.43-	.94	2.95-	3.74	5.18-	1.90	7.30	.71	4.88-	2.03	2.99-	2.83	1.23-	2.35	2.78-	.05	46.51	16.35
KAINALIU 73.2		8.37	4.41	1.08-	2.31	1.13-	4.15	3.47-	2.19	6.12-	1.58	3.84-	4.11	6.39-	2.16	7.90	.21	6.38-	1.22	2.63-	3.57	3.00-	1.27	3.69	.68	54.00	17.26
KALAPANA ND 1 67.8		20.94		22.25		11.23		3.36		4.99		1.28		4.58		6.54		4.80		3.75		6.13		2.25		92.10	
KAMADA ND 2 5	A	10.31		.56		1.29		.88		1.91		1.84		2.41		5.08		E .17		E 1.71		2.29		.83		29.28	
KAMUELA 192.2		6.89	2.58	4.34	.12	2.24-	2.03	5.36	1.47	.63-	2.13	1.18-	.60	1.67-	.97	3.00-	.08	1.35	.05	.55-	1.74	1.30-	1.37	3.10-	1.59	31.61	6.29
KAMUELA AIRPORT 191		5.05		1.31		1.64	E	3.06		.28		.79		1.79		1.74		.50		.08		.73		.49	E	17.46	
KAPAPALA RANCH 36	A	19.35	10.34	5.48-	2.05	3.53-	3.81	2.74-	2.36	3.70-	.31	1.46-	.64	1.83-	.32	3.29-	1.09	3.55-	.54	3.97-	1.63	1.26-	4.97	1.03-	3.64	51.19	11.02
KAPOHO LANDING 93.5	A	21.72		30.42		10.42		11.94		11.03		3.07		10.00		11.25		7.18		5.08		6.66		5.33		134.10	
KAUMANA 88.1		20.10		70.10		34.47		35.69		10.78		4.59		20.91		32.29		13.58		4.02		10.17		8.90		265.60	
KAWAINUI LOWER 193	A	15.68	2.49	38.47	23.80	19.94-	.22	35.50	14.52	14.73-	2.83	11.64	1.17	14.49-	1.16	23.90	6.95	5.79-	1.94	8.17-	3.04	4.36-	7.08	20.10	1.73	212.77	34.37
KEAAU 92		15.58	3.02	50.19	36.76	31.73	16.19	21.66	9.24	9.54-	.34	3.39-	4.47	12.28	2.14	21.26	9.51	9.51	.46	4.25-	8.13	5.55-	8.38	7.39-	8.78	192.33	47.18
KEALAKEKUA 26.2		7.17		1.45		1.62		4.82		6.00		3.12		5.31		8.06		5.06		3.07		.98		2.79		49.45	
KEHENA 181.2	A	19.09	8.77	23.75	13.69	21.36	8.66	13.60	.98	4.67-	4.44	4.65-	2.70	12.50	2.95	14.10	4.91	3.88-	.99	3.30-	2.85	2.93-	5.36	9.35-	3.59	133.18	20.03
KIDLAKAA A & F 6	A	12.30	4.91	5.70-	1.58	3.00-	3.05	2.30-	2.87	3.70-	1.34	3.78-	1.40	7.40	1.92	14.80	8.23	4.00-	1.92	5.60	.35	7.40	.82	1.00-	3.47	70.98	.60
KIPA 89.2	A	22.82		75.72		43.30		37.83		12.83		4.59		22.36		40.80		13.88		5.36		12.23		9.52		301.24	
KOHALA 179.1	A	7.83	3.06	9.97	5.49	10.58	4.76	8.05	2.26	2.79-	1.45	2.42-	.97	3.14-	1.41	7.86	2.77	3.19	.22	1.34-	3.19	4.38-	.17	5.54-	.91	67.09	10.46
KOHALA MAULILI 176	A	14.20	3.27	23.79	15.74	14.51	5.97	13.46	.00	3.12-	3.61	3.94-	1.24	6.21-	.61	9.71	3.74	3.54-	.35	1.70-	4.38	4.34-	1.10	5.90-	3.37	95.44	11.93
KOHALA MISSION 175.1		9.56	4.10	14.76	9.62	10.87	4.36	9.34	2.56	3.16-	1.59	2.83-	.85	5.42	.22	8.82	3.15	3.22	.28	1.52-	3.04	5.73	.71	6.02-	1.23	81.25	18.29
KOIAWE LOWER 196	A	11.94	3.03	19.77	9.43	14.42	1.59	18.08	4.78	7.24-	3.06	6.07-	.59	9.17-	.76	11.39	.31	4.16-	.17	5.23-	1.76	2.56-	4.34	12.77	.94	122.80	9.40
KONA AIRPORT 68.3		5.73		2.56		.11		1.85		2.14		3.63		4.00		1.76	E	2.73		.35		1.21		1.09	E	27.16	
KONA VILLAGE 93.8		5.18		.30		.43		.08		2.30		1.22		.24		.38		.04		.00		.53		.17		10.87	
KUKAIAU 222		19.14	11.49	49.02	37.37	28.24	13.63	23.40	9.98	6.06-	2.55	4.68	1.27	7.71	1.33	17.61	9.47	3.14-	.48	1.52-	6.33	4.99-	4.48	8.59-	4.63	174.10	66.07
KUKAILE MIC 199		9.10	2.99	13.79	6.48	14.51	4.47	9.05	5.41	3.12-	3.61	3.94-	1.50	4.44-	1.18	9.71	3.74	3.26	.47	1.76-	4.18	4.04-	2.72	6.49-	2.73	90.78	12.10
KUKUIHAELE MILL 206	A	6.74	2.15	15.64	10.10	12.35	4.83	9.56	3.17	2.57-	1.86	4.08	2.03	4.74	1.09	8.33	4.09	2.48	.43	.65-	4.13	2.86-	2.11	5.87-	1.30	76.07	18.49
KULANI CAMP 79		17.10		35.90		11.80		15.85		2.54		2.01		9.58		15.84		5.53		1.81		6.69		8.47		133.12	
KULANI MAUKA 76	A	5.94		11.78		4.27		4.50		1.15		.40		3.93		4.91		1.10		.16		2.40		1.62		42.17	
KULANI SCHOOL SITE 78	A	7.28		30.07		4.80		14.03		7.25		1.93		9.59		15.94		4.22		1.81		8.71		6.99		112.55	
LANIHAU 68.2		7.67		5.96		2.09		2.90		4.69		6.29		5.58		10.83		3.41		2.69		2.94		4.31		59.34	
MANUKA 2	A	8.11	3.95	2.05-	2.51	2.23-	3.67	1.83-	3.73	2.04-	4.68	1.18-	4.33	3.11-	1.87	3.04-	3.06	1.90-	3.95	.66-	3.79	1.06-	2.54	.72-	3.00	27.97	33.18
MAUNA KEA BEACH 98		2.95		.49		.03		.02		1.22		1.07		1.19		.36		.17		.02		.21		.18		7.91	
MAUNA LOA SLOPE 085		5.29		1.45		1.36		.97		.65		.02		.25		1.00		.39		.58		.08		.32		12.36	
MIDDLE HOLUALOA 68.1	A	.88		.02		1.14		2.01		2.85		3.09		4.85		5.02		5.35		1.16		2.31		2.11		30.79	
MIDDLE PEN 147.1	A	6.52		.26		.22		.00		.83		1.55		.31		1.59		.72		.00		.00		.70		12.70	
MOAULA 18	A	14.40	5.92	2.50-	3.84	1.35-	4.47	1.25-	2.12	1.73-	.52	1.36-	.01	.35-	1.12	2.30-	.85	2.17-	.76	3.30-	1.31	.45-	5.09	1.30-	3.04	32.46	17.21
MOUNTAIN VIEW 91		21.81	6.42	60.66	45.05	40.66	20.44	32.43	14.44	13.45-	1.58	3.92-	6.73	17.26	2.32	29.57	12.66	13.54	1.94	4.23-	9.68	9.06-	8.63	8.24-	10.11	254.83	66.53
NAALEHU 14	A	12.66	4.69	5.59-	.26	1.51-	4.02	1.03-	1.67	2.52	.34	1.06-	.73	1.14-	.44	5.45	1.53	2.26-	1.10	2.07-	1.81	3.22-	1.99	1.89-	2.68	40.40	8.14
NAPOOPOO 28	A	4.64		.57		1.14		3.34		3.37		1.93		5.55		7.40		3.59		2.63		.48		1.96		36.60	
NAULU FOREST 38.6		23.49		16.19		8.88		2.90		6.48		.77		3.66		6.44		2.76		4.82		6.13		2.96		85.48	
NIULII 179	A	7.99	3.29	12.85	8.19	14.57	8.51	10.51	4.51	3.38-	1.28	2.93-	.36	4.02-	.75	8.88	3.65	3.88	.70	1.85-	2.72	4.15-	.64	5.70-	.73	80.71	22.37
OOKALA 223		14.78	6.61	49.24	37.40	29.74	15.57	19.12	5.32	8.26-	1.02	3.98-	.62	10.87	3.63	19.81	10.29	4.47-	.69	4.69-	3.75	3.69-	6.91	10.57-	1.96	179.22	63.87
OPIHIHALE 2 24.1		6.31		2.88		1.90		2.83		2.38		4.73		4.73		6.37		2.57		4.19		.50		2.19		41.58	
ORCHID LAND EST 91.5	A	18.45		48.74		27.77		20.53		11.91		3.93		10.61		18.91		9.81		5.06		6.40		6.83		188.95	
PAAUHAU 217		7.21	1.90	21.21	14.06	14.35	5.55	13.11	5.07	4.42-	.78	4.01	2.19	3.45-	.22	9.26	4.70	2.55	.20	1.45-	3.77	3.06-	2.81	4.90-	3.40	88.98	22.69
PAAUILO 221		15.31	7.62	41.69	30.07	23.02	8.80	20.86	7.87	4.91-	3.32	4.24	1.27	5.24-	.60	14.23	7.16	2.54-	.77	1.42-	5.84	4.39-	4.40	8.85-	3.66	146.90	44.20
PAHALA 21		15.79	7.76	4.07-	2.52	1.84-	3.74	1.32-	1.84	2.42	.10	1.36	.03	.62-	.90	3.44	.38	2.61	.10	3.95-	.06	1.05-	4.39	1.63-	2.80	40.12	7.88
PAHOA 65		20.10	7.05	46.75	33.62	24.30	9.09	17.11	5.59	11.72	1.77	4.32-	3.75	13.25	2.76	15.87	4.37	10.58	1.27	5.65-	6.32	6.87-	6.62	7.74-	8.33	184.26	40.50
PAKAO 37	A	17.70	11.13	E 3.48-	2.88	E 2.82-	4.00	5.10-	.23	3.60	.60	.58-	2.20	9.52	5.80	5.15-	.64	6.30	1.73	6.20	.52	2.30-	2.15	1.60-	1.75	66.35	5.93
PAPAIKOU 144.1		13.31	1.29	52.24	38.79	36.76	21.67	17.94	5.62	7.11-	2.79	2.65-	4.23	12.70	2.47	25.28	13.22	11.56	3.00	3.02-	8.67	7.28-	5.26	11.77-	3.90	201.62	61.21
PAPAIKOU MAUKA 140.1		24.62	7.43	75.20	56.74	52.51	33.08	36.08	14.42	12.65-	4.54	5.70-	6.32	23.24	6.49	33.35	11.73	15.37	1.86	4.23-	12.86	10.60-	8.05	11.68-	10.32	305.23	86.66
PEPEEKEO MAKAI 144		8.23-	2.20	52.06	39.52	27.96	13.62	19.35	8.21	7.12-	1.80	3.41-	2.99	11.69	2.19	20.04	9.29	7.06-	.59	3.49-	7.00	7.02-	4.76	10.73-	3.53	178.16	49.96
PIIHONUA 89	A	32.50	12.86	48.00	27.74	E 50.16	23.81	E 37.44	13.73	14.60-	6.59	5.20-	9.22	27.60	7.75	43.00	18.34	15.60-	.69	9.20-	8.54	18.40-	4.46	13.60-	9.90	315.30	64.83
POHAKULOA 107	A	3.17		.83		.09		.30		1.20		.49		.94		1.26		.00		.00		.18		.26		8.72	
PUAKO 95.1	A	3.33		.21		.11		.06		1.32		.67		.38		.64		.15		.00		1.91		.24		9.02	
PUU KIHE 120	A	3.40-	.17	7.68	2.63	5.95-	.07	4.65	1.15	1.68-	.26	.83-	.22	2.65	.50	.85-	3.60	.03-	1.54	.22-	2.94	1.88-	1.44	1.87-	3.70	31.69	9.66
PUU LAAU 102.1	A	3.62		.68		1.94		.28		1.52		.90		.90		1.08		.95		.22		.92		.86		13.87	
PUU LEHUA 73	A	8.00	5.66	2.10-	.21	1.40-	1.76	1.20-	1.47	2.00-	1.22	1.40-	1.15	1.55-	1.08	3.40	.04	2.20-	.13	.30-	1.93	.35-	1.36	1.69	.07	25.59	4.54
PUU MALI 113	A	1.25		1.40		2.68		2.00		.62		.67		.21		2.90		.58		.02		.43		1.10		13.86	
PUUOKUMAU 167	A	11.94	6.33	21.33	15.83	9.75	2.34	9.15	2.39	2.27-	2.45	3.49	.09	5.05	.20	6.17	1.63	3.13	.69	1.25-	2.67	6.24	1.56	5.01-	2.04	84.78	23.90
PUU OO 82		-		-		-		-		-		-		11.08		12.23		3.99		1.00		4.59		4.03		-	
PUU WAAWAA 94.1	A	4.38	1.15	.18-	2.39	1.66-	1.55	.17-	2.13	1.04-	1.69	1.08-	1.04	2.55	.45	1.27-	.86	.91-	1.42	.55-	2.33	.99-	1.10	.81-	.89	15.59	13.80
SADDLE ROAD 1 84	A	25.70		47.56		34.09		33.28		15.25		5.40		24.72		39.43		12.91		5.16		15.96		10.53		269.98	
SOUTH POINT CORRAL 3	A	3.11		2.61		.93		.32		1.35		.44		1.17		2.80		1.41		.48		1.74		1.16		17.60	
UMIKOA 118		6.14-	1.04	24.75	14.20	10.72-	2.01	19.29	9.96	2.00-	3.06	4.76	3.06	3.04	.05	13.07	8.01	2.74	.38	.48-	4.47	2.70-	3.70	7.47-	4.02	97.16	17.58
UPOLU POINT USCG 159.2		8.60		6.81		4.74		3.55		1.37		1.57		2.44		3.61		1.43		.38		3.30		2.27		40.07	
WAIAKEA SCD 88.2		20.90		64.85		34.61		38.25		12.05		4.73		15.82		32.33		13.61		3.59		9.37		9.00		259.11	
1SLAND		10.24		16.67		9.71		9.36		4.06		2.68		5.34		8.72		4.06		1.72		3.14		3.93		79.63	

Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

See Reference Notes Following Station Index

TEMPERATURE EXTREMES

Station	Highest	Date	Lowest	Date
* * *				
ISLAND OF KAUAI				
KANALOHULUHULU 1075	78	10- 8+	33	1-20
KILAUEA POINT 1133	92	6-15	48	12-28
LIHUE WB AP 1020.1	89	6-15	50	1-22
MAKAHUENA POINT 940.1	93	7-28+	54	1-25
MANA 1026	92	8-18+	54	1-22
NIU RIDGE 1035	87	7-31+	51	1-23+
WAIAHI LOWER 1054	86	6-15	44	1-23+
* * *				
ISLAND OF OAHU				
EWA PLANTATION 741	88	8-27+	51	1-20
HONOLULU WBFC 703	92	8-27+	52	1-20
HONOLULU SUBSTA 704	86	10-25	59	1-26+
KAHUKU 912	89	3-12	53	1-20
KANEOHE MAUKA 781	90	11-25	55	1-25
LUALUALEI 804	90	8-29+	52	1-20
MAKAPUU POINT 724	89	9-16	52	12-28
OPAEULA 870	88	6-14	50	1-21+
PRI WAHIAWA 820.2	90	11- 2	47	1-21+
WAIALUA 847	91	7-29	49	1-20
WAIKIKI 717.2	91	6-17	51	1-20
WAIMANALO EXP FARM		-		-
* * *				
ISLAND OF MOLOKAI				
MOLOKAI AP 524	87	10-28+	52	1-20
* * *				
ISLAND OF LANAI				
LANAI CITY 672	83	12- 3+	52	1-26+

Station	Highest	Date	Lowest	Date
* * *				
ISLAND OF MAUI				
HALEAKALA RS 338	76	5-24	30	1-24+
HALEAKALA SUMMIT 338.4	70	5-23	21	1-17
HANA AIRPORT 355	86	6-26+	53	1-20
KAANAPALI AIRPORT	89	8-28+	55	1-22
KAHULUI WB AP 398	93	7-27	48	1-20
KAILUA 446	85	11-16	52	1-21
KEAWAKAPU BEACH 260.2	95	7- 1	53	1-28+
KULA SANATORIUM 267	81	9-14	41	1-26
LAHAINA 361	92	7-14	56	1-20
WAILUKU 392		-	56	1-26+
* * *				
ISLAND OF HAWAII				
HAINA 214	85	10-27+	53	1-21
HAWAII VOLCNS NP HQ 54	79	7-12	39	1-21
HILO WB AIRPORT 87	90	6-24	54	1-23
KAINALIU 73.2	83	10-27+	52	1-27+
KAMUELA 192.2	82	11-16+	40	1-26
KAMUELA AIRPORT 191	84	3-11	36	2-25
KEAAU 92	90	1- 3	55	1-25
KEALAKEKUA 26.2	83	10-27+	54	1-24
KOHALA MISSION 175.1	84	10-27+	57	1-20
KONA AIRPORT 68.3	88	8-17+	36	1-26+
KULANI CAMP 79	78	12-22	32	1-27
MAUNA KEA BEACH 98	95	10- 9	55	2-14
MAUNA LOA SLOPE OBS	66	5-31	22	1-23
MOUNTAIN VIEW 91	86	6-17	48	1-21
NAALEHU 14	85	12-22+	59	12-16+
OOKALA 223	85	12-27+	56	4-25
OPIHIHALE 2 24.1	86	6-30	50	1-25+
PAHALA 21	88	7-14	54	2-27+
UPOLU POINT USCG 159.2	88	9-23	59	1-21

See Reference Notes Following Station Index

Table 4

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII
1969

Station		Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
* * *														
ISLAND OF KAUAI														
LIHUE WB AP 1020.1	EVAP	5.08	-	7.82	8.24	9.058	9.48	10.61	12.36	10.77	8.16	6.658	6.058	-
	WIND	2441	-	4709	5638	3775	3628	3541	41298	6117	3989	3701	4337	-
	MAX	77.6	-	83.0	83.0	88.4	90.2	90.4	90.0	88.1	87.3	82.5	80.3	-
	MIN	58.4	-	63.5	64.5	66.5	68.7	70.4	70.2	68.8	66.9	66.1	62.4	-
* * *														
ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	3.538	4.78	6.34	7.50	8.89	8.18	9.84	9.67	7.57	6.268	5.308	4.60	82.46
	WIND	648	1302	968	1393	1035	865	1265	1133	796	633	691	803	11522
	MAX	79.2	84.0	87.2	87.3	93.7	94.5	92.3	92.7	89.6	90.4	86.0	83.3	88.4
	MIN	61.1	65.3	63.8	65.2	67.6	69.8	70.5	69.9	68.9	67.4	65.9	63.2	66.6

NAME	RELOCATION AND CHANGES OF EQUIPMENT	DATE
ISLAND OF KAUAI		
KALIHIWAI RESERVOIR 1131	EQUIPMENT MOVED 1,000 FEET WSW	MAY 15, 1969
KANEHA RESERVOIR 1092	EQUIPMENT MOVED 600 FEET SW	JANUARY 1, 1969
WAIMEA 947	EQUIPMENT MOVED 200 FEET ESE	MARCH 1, 1969
ISLAND OF OAHU		
WAIANAE 798	EQUIPMENT MOVED 1,500 FEET SSW	APRIL 1, 1969
ISLAND OF HAWAII		
KONA VILLAGE 93.8	EQUIPMENT MOVED 600 FEET S	JUNE 7, 1969
KOAWALOA 29	EQUIPMENT MOVED 125 FEET N	JULY 1, 1969
KULANI MAUKA 76	EQUIPMENT MOVED 25 FEET NE	JANUARY 1, 1969
NAALEHU 14	EQUIPMENT MOVED 200 FEET W	APRIL 27, 1956
SOUTH POINT CORRAL 3	RECORDING RAIN GAGE ADDED	NOVEMBER 6, 1969

See Reference Notes Following Station Index

STATION INDEX

Station	Index No.	Division No.	District	Drainage	Latitude	Longitude	Elevation	Years of record: Temp.	Precip.	Evap.	Opened or closed during yr.: Month opened	Month closed	Refer to tables
ISLAND OF KAUAI													
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610						C
ANAHOLA 1111 A	0145	01	KAWAIHAU	1	22 09	159 19	116		39				2 C
BRYDESWOOD STA 985 A	0240	02	KOLOA	2	21 56	159 32	720		60				2
EAST LAWAI 934 A	0456	02	KOLOA	2	21 55	159 30	440		68				2
EKW 3 RESERVOIR 1094.1	0465	02	KAWAIHAU	2	22 06	159 22	350						C
ELEELE 927 A	0470	02	KOLOA	2	21 54	159 35	163		69				2
HALAULA 1110 A	0935	01	KAWAIHAU	1	22 07	159 19	253		68				2
HALENANAHO 1006 A	1038	02	LIHUE	2	21 58	159 26	490		38				2
HANALEI TUNNEL 1053	1170	01	KAWAIHAU	1	22 05	159 28	1218						S
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		29				2
ILIILIULA INTAKE 1050 A	2222	02	LIHUE	2	22 02	159 28	1070		35				2
INTAKE WAINIHA PC 1086A	2227	01	HANALEI	1	22 09	159 34	690		5				2 S
KALIHIWAI RES 1131 A	2974	01	HANALEI	1	22 11	159 25	380		32				2
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	5	15				1 2 C
KANEHA RESERVOIR 1092 A	3104	01	KAWAIHOU	1	22 08	159 23	830		7				2
KAPAA STABLES 1104 A	3159	01	KAWAIHAU	1	22 05	159 20	175		29				2 C
KEALIA 1112 A	3932	01	KAWAIHAU	1	22 06	159 19	9		70				2
KEKAHA 944	4272	03	WAIMEA	3	21 56	159 43	9		75				2 C
KILAUEA 1134 A	4551	01	HANALEI	1	22 13	139 25	317		84				2 C
KILAUEA FIELD 17 1135 A	4556	01	HANALEI	1	22 11	159 24	415		39				2
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	18	19				1 2
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150						C
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		33				2
KOLOA 936 A	4742	02	KOLOA	2	21 55	159 28	240		83				2
KOLOA MAUKA 994 A	4750	02	KOLOA	2	21 58	159 29	640		63				2
KOLOKO RES 1137 A	4758	01	KAWAIHAU	1	22 11	139 23	737		36				2
KUKUIULA 935 A	4950	02	KOLOA	2	21 54	159 30	100		67				2
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	373		7				2 C
LIHUE 1020 A	5575	02	LIHUE	2	21 59	159 22	207		63				2
LIHUE WB AP 1020.1 R	5580	02	LIHUE	2	21 59	159 21	103	19	19	15			1 2 4C
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	12	12				1 2
MAKAWELI 963 A	5854	03	WAIMEA	3	21 55	139 38	140		78				2
MANA 1026	6052	03	WAIMEA	3	22 02	139 46	11	56	65				1 2
M+M 1001	6097	02	KOLOA	2	21 55	159 28	300						C
MOHIHI UPR CROSS 1083 A	6433	01	WAIMEA	3	22 07	159 36	3300		5				2 S
MOLOAA 1145 A	6529	01	KAWAIHAU	1	22 11	159 20	330		43				2
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		22				2 S
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	24	30				1 2
N WAILUA DITCH 1051 A	6888	02	LIHUE	2	22 04	159 28	1110		42				2
N WAILUA RIVER 1055	6893	01	KIHUE	2	22 04	159 26	650						S
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		62				2 C
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		60				2 C
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		30				2
PUHI 1013 A	8217	02	LIHUE	2	21 58	139 24	329		3A				2
RESERVOIR 6 1004 A	8573	02	LIHUE	2	21 57	159 27	420		56				2
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740						C
WAHIAWA 930 A	8941	02	KOLOA	2	21 54	159 34	215		65				2 C
WAHIAWA MOUNTAIN 990 A	8949	02	KOLOA	2	21 58	159 31	2100		69				2
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	16	40				1 2
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		37				2
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		75				2
WAILUA KAI 1065 A	9467	02	LIHUE	2	22 02	159 21	50		7				2
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		57				2
WEST LAWAI 931 A	9955	02	KOLOA	2	21 54	159 31	210		68				2
ISLAND OF OAHU													
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320						C
AIEA FIELD 625 761 A	0111	03	EWA	3	21 25	157 57	455		62				2
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		11				2
CAMP 84 807 A	0300	03	EWA	3	21 26	158 04	760		14				2 C
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	137 56	20		3				2
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	13		12				2
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565						C
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	63	78				1 2
HALAWA SHAFT 77192	0964	02	HONOLULU	2	21 23	157 54	170						C
HELEMANO INTAKE 881 A	1384	05	WAIALUA	5	21 33	158 00	1274		52				2 C
HOKULOA 725.2 A	1540	03	EWA	3	21 24	158 05	2220		5				2 C
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		7	7			2 4
#HONOLULU WBFC 703 R	1919	02	HONOLULU	2	21 20	157 55	7	23	23				1 2 C
#HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	65	65				1 2 C
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		52				2
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10						C
KAHANA 883 A	2462	01	KOOLAULOA	1	21 31	157 54	800		52				2
KAHUKU 912 A	2570	01	KOOLAULOA	1	21 41	157 57	23	60	77				1 2 C
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		11				2 C
KALIHI RES SITE 777	2950	02	HONOLULU	2	21 23	157 50	910		42				2
KAMEHAME 724.7	3056	01	KOOLAUPOKO	1	21 19	157 41	1380						C
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	29	41				1 2
KANEOHE RANCH 838 A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		25				2
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10						C
KAPALAMA 773 A	3268	02	HONOLULU	2	21 21	157 52	61A		47				2
KAWAIHAPAI 841 A	3734	05	WAIALUA	5	21 35	158 11	20		40				2
KAWAI IKI INTAKE 880.2A	3741	05	WAIALUA	5	21 34	157 59	1180		14				2
KAWELA MAUKA 906.3	3823	01	KOOLAUPOKO	1	21 40	158 00	1050					DEC	C
KEMOO CAMP 8 835 A	4318	05	WAIALUA	5	21 33	158 03	723		45				2
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		55				2
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113		33				1 2 C
LUALUALEI WTR TUNNEL A	5650	04	WAIANAE	4	21 29	158 08	1500		15				2
LULUKU	5655	01	KOOLAUPOKO	1	21 24	157 49	240						C
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		13				2
MAKAHA KAI 796 A	5766	04	WAIANAE	4	21 28	138 13	23		43				2
MAKAHA VALLEY 800.1 A	**5781**	**04**	**WAIANAE**	4	21 29	158 12	160		10			FEB	2
~~MAKAHA PUMP 800.2~~ A	5782	04	UAHU	4	21 29	138 12	400				FEB		2 C
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	21	57				1 2
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		51				2
MANOA TUNNEL 2 718	6130	02	HONOLULU	2	21 20	157 48	650		42				2
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410						C
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		69				2
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025						C
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		65				2
NUUANU RESERVOIR 5 775A	6933	02	HONOLULU	2	21 21	157 50	410		80				2
OPAEULA 870 A	7150	05	WAIALUA	5	21 34	138 02	1060	64	65				1 2 C
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	137 46	995		42				2
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	137 48	1640		42				2
PEARL CITY TERCE 754.1	7933	03	EWA	3	21 25	137 58	240						C
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		6				2
PRI WAHIAWA 820.2 A	8172	05	WAHIAWA	5	21 28	158 01	700	4	4				1 2 3 C
PUNALUU 884 A	8310	01	KOOLAULOA	1	21 35	157 54	40		22				2
PUNCHBOWL CRATER 709 A	8316	02	HONOLULU	2	21 19	157 51	360		19				2
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	138 02	900						C
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	137 47	485		27				2
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	137 49	2000						C
TANTALUS 2 781.5	8738	02	HONOLULU	2	21 20	157 50	1325		6				2
UNIV OF HAWAII 713 A	8815	02	HONOLULU	2	21 18	157 49	79		44				2
WAHIAWA DAM 863 A	8945	05	WAHIAWA	5	21 30	158 03	854		56				2 C
WAIAHOLE 837 A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		53				2 C
WAIALAE KAHALA 715	9135	02	HONOLULU	2	21 17	137 47	40		47				2
WAIALUA 847 A	9195	05	WAIALUA	5	21 33	138 07	32	62	69				1 2 C
WAIANAE 798 A	9231	04	WAIANAE	4	21 27	158 11	10		74				2
WAIANAE MAUKA 803 A	9238	04	WAIANAE	4	21 29	158 09	1575		64				2
WAIAWA 836 A	9261	03	EWA	3	21 28	137 56	800		53				2
WAIKANE 885 A	9340	01	KOOLAUPOKO	1	21 30	157 53	760		53				2
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	9	5				1 2 3
WAILUPE RESV. 723.2 A	9495	02	HONOLULU	2	21 18	157 45	170		15			DEC	2
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180						C
WAIMANALO 794 A	9521	01	KOOLAUPOKO	1	21 21	157 44	60		68			SEP	2
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60				SEP		1 2 3
WAIMEA 892 A	9593	05	WAIALUA	5	21 38	158 04	330		53				2 C
WAIPAHU 750 A	9738	03	EWA	3	21 23	158 01	59		71				2
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	1100		42				2
ISLAND OF MOLOKAI													
KALAUPAPA 563 A	2896	01	MOLOKAI	1	21 12	156 59	30		5				2
KAMALO MAUKA 542.6	3046	01	MOLOKAI	1	21 04	156 52	60						C
KAUNAKAKAI 536 A	3541	01	MOLOKAI	1	21 06	157 01	12		13				2
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70						C
KEONELELE PENS 551 A	4394	01	MOLOKAI	1	21 12	157 12	560		6				2
KUALAPUU 534 A	4778	01	MOLOKAI	1	21 09	157 02	878		70				2 C
MAPULEHU 342	6138	01	MOLOKAI	1	21 04	156 48	20		50				2
MAUNALOA 311 A	6190	01	MOLOKAI	1	21 06	137 13	1070		41				2 C
ISLAND OF MOLOKAI													
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	18	20				1 2
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		7				2 C
WAIKOLU 540 A	9404	01	MOLOKAI	1	21 08	156 55	3550		5				2 C
ISLAND OF LANAI													
KANEPUU 690 A	3130	01	LAHAINA	1	20 52	157 00	1650		15				2 C
KAUMALAPAU HARBOR 658 A	3461	01	LAHAINA	1	20 47	157 00	30		7				2 C
LANAI CITY 672 A	5286	01	LAHAINA	1	20 50	156 55	1620	36	40				1 2
LANAIHALE 684 A	5301	01	LAHAINA	1	20 49	156 53	3370		7				2 C
MAHANA 694 A	5704	01	LAHAINA	1	20 53	156 55	1430		15				2
MALAUEA 676 A	6012	01	LAHAINA	1	20 46	156 55	1150		7				2 C
WAIAKEAKUA 685 A	9021	01	LAHAINA	1	20 47	156 52	2040		15				2
ISLAND OF MAUI													
AUWAHI-252 A	0175	02	HANA	2	20 37	156 20	2060		7				2
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050						C
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980						S
HALEAKALA 8 E S 434 A	0995	01	MAKAWAO	1	20 51	156 18	2100		48				2
HALEAKALA RANCH 432 A	0999	01	MAKAWAO	1	20 50	156 19	1850		78				2
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	24	31				1 2
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	9	9				1 2 C
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690						C
HALIIMAILE 423 A	1075	01	MAKAWAO	1	20 52	156 21	1070		6				2
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		86				2
HANA 354	1122	01	HANA	1	20 45	155 59	120		7				2 C
HANA AIRPORT 353	1125	01	HANA	1	20 48	156 01	61	19	19				1 2
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		21				2
HOLUA CABIN 259.5 A	1552	02	MAKAWAO	2	20 45	156 13	6930		6				2
HONOKOHAU 480 A	1882	04	LAHAINA	4	20 58	156 36	870		5				2
HONOKOHUA 493 A	1887	04	LAHAINA	4	21 00	156 39	135		42				2
HONOLUA FLD 49 494	1914	04	LAHAINA	4	21 01	156 38	125						S
HONOMANU GULCH 341 A	1935	01	MAKAWAO	1	20 47	156 14	6280		3A				2
IAO NEEDLE 387.2	2278	03	WAILUKU	3	20 53	156 33	1100						C
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	2	2				1 2 3
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650						C
KAHOMA INTAKE 374 A	2552	04	LAHAINA	4	20 54	156 38	2000		59				2
KAHULUI WB AP 398 K	2572	03	WAILUKU	3	20 54	156 26	48	14	1A				1 2 C
KAILIILI 436 A	2630	01	MAKAWAO	1	20 51	156 16	2520		A5				2
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	57	66				1 2
KAUAULA INTAKE 375 A	3433	04	LAHAINA	4	20 53	156 38	1585		51				2
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020						C
KEAHUA 410	3910	03	MAKAWAO	3	20 32	156 23	A80		51				2
KEANAE 346 A	4091	01	HANA	1	20 50	156 10	980		65				2
KEAWAKAPU BEACH 250.2	4193	02	MAKAWAO	2	20 42	156 27	15		6				1 2 S
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		47				2 C
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		69				2
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788						S
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6				2 C
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	32	32				1 2
LAHAINA 361	3177	04	LAHAINA	4	20 53	156 41	43	23	56				1 2 C
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		56				2
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		43				2
LUPI UPPER 442 A	5665	01	MAKAWAO	1	20 53	156 15	1240		72				2
MAHINAHINA 465 A	5715	04	LAHAINA	4	20 57	156 40	715		56				2
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290						S
NAKALELE -FLD 60-497 A	6645	04	LAHAINA	4	21 02	156 36	340		32				2
OLINDA 332 A	7040	01	MAKAWAO	1	20 48	156 17	4127		52				2
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		6				2
OLOWALU GULCH 377 A	7066	04	LAHAINA	A	20 51	136 36	800		58				2
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		65				2 C
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		65				2
PANILEIHULU 259.2 A	7674	02	HANA	2	20 41	156 08	3570		6				2
PAUWELA 490 A	7857	01	MAKAWAO	1	20 55	156 19	A85		53				2
POHAKEA BRIDGE 307.2 A	8060	03	WAILUKU	3	20 49	156 31	167		16				2
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	136 20	6130		6				2
PUOHOKAMOA 2 343 A	8336	01	HANA	1	20 50	156 13	2980		41				2
PUU KUKUI MAKAI 472 A	8444	04	LAHAINA	4	20 35	156 38	2500		58				2
PUUNENE 396	8543	03	WAILUKU	3	20 33	156 27	60		65				2
PUU PAKI 352	8553	01	HANA	1	20 46	156 03	2160						S
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		62				2
TWIN GATES 261.3 A	8742	03	MAKAWAO	3	20 46	156 23	1310		6				2
UKULELE 333 A	8744	01	MAKAWAO	1	20 48	136 15	5230		64				2
UKUMEHAME 301 A	8750	04	LAHAINA	4	20 48	156 35	75		40				2
ULURALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		15				2 C
WAHIKULI 364 A	8955	04	LAHAINA	4	20 54	156 40	580		49				2
WAIEHU CAMP 484 A	9275	03	WAILUKU	3	20 55	156 31	320		60				2
WAIHEE VALLEY 482 A	9315	04	WAILUKU	4	20 57	156 32	300		53				2
WAIKAMOI 449 A	9332	01	HANA	1	20 52	156 12	1200		63				2
WAIKAMUI DAM 336 A	9335	01	MAKAWAO	1	20 49	156 14	4320		52				2 C
WAIKAPU 390 A	9376	03	WAILUKU	3	20 52	156 31	470		75				• 2
WAILUA IKI 345	9460	01	HANA	1	20 48	156 09	2630						S
WAILUKU 392	9434	03	WAILUKU	3	20 54	156 30	200	58	68				1 2
WAIOPAI RANCH 236 A	9763	02	HANA	2	20 38	156 12	220		71				2
ISLAND OF HAWAII													
AHUA UMI 75 A	0040	05	N KONA	5	19 38	155 47	5220		46				2
AWINI 182.1 A	0190	01	N KOHALA	1	20 10	155 43	1870		64				2
EAST HONOKANE 183.2 A	0450	01	S KOHALA	1	20 07	135 43	4240		44				2
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	60	80				1 2 C
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		78				2
HALEMAUMAU 52 A	1033	03	KAU	3	19 24	135 17	3648		37				2
HALEPIULA 117 A	1060	01	HAMAKUA	1	19 56	155 24	5770		35				2
HALEPOHAKU 111 A	1065	02	HAMAKUA	2	19 46	155 28	9220		30				2
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	56	57				1 2 C
HAWI 168 A	1339	01	N KOHALA	1	20 14	135 50	600		70				2 C
HILO WB AIRPORT 87 R	1492	02	S HILO	2	19 43	155 04	27	23	27	1A			1 2 4C
HOLUALOA 70 A	1557	04	N KONA	4	19 38	155 55	3220		41				2
HOLUALOA BEACH 68 A	1562	04	N KONA	4	19 37	155 59	14		A9				2
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		31				2
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		76				2
HONOKANE 181.1 A	1864	01	N KOHALA	1	20 09	155 44	800		6A				2
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		31				2 C
HONUAULA 71 A	2047	04	N KONA	4	19 40	155 53	6250		40				2
HUALALAI 72 A	2131	04	N KONA	4	19 42	155 52	8190		41				2
HUEHUE 92.1 A	2156	04	N KONA	4	19 45	155 59	1960		66				2
KAALA IKI 12 A	2249	03	KAU	3	19 08	135 34	1340		31				2
KAAWALOA 29 A	2327	04	N KONA	4	19 30	155 55	1330		28				2
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700						C
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	34	39				1 2
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		3				2
KAMAOA NO 2 5 A	3048	03	KAU	3	19 02	155 40	1375		15				2
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	33	79				1 2
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	15	16				1 2
KAPAPALA RANCH 36 A	3300	03	KAU	3	19 17	155 27	2140		83				2
KAROHO LANDING 93.5 A	3369	02	PUNA	2	19 30	154 52	290		7				2
KAUMANA 88.1	3510	02	S HILO	2	19 41	135 09	1123		31				2 C
KAWAINUI LOWER 193 A	3770	01	HAMAKUA	1	20 05	155 39	1080		59				2
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	7	7				1 2
KEAIWA CAMP 27.1	3925	03	KAU	3	19 14	155 29	1700						C
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	3	54				1 2 C
KEHENA 181.2 A	4245	01	N KOHALA	1	20 07	155 45	3840		58				2
KIOLAKAA A & F 6 A	4625	03	KAU	3	19 04	155 38	1925		40				2
KIRA 89.2 A	4632	02	S HILO	2	19 44	155 09	1490		17				2
KOHALA 179.1 A	4670	01	N KOHALA	1	20 14	155 47	309		74				2
KOHALA MAULILI 176 A	4675	01	N KOHALA	1	20 13	155 47	960		62				2
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	62	79				1 2
KOIAWE LOWER 196 A	4683	01	HAMAKUA	1	20 05	155 38	720		59				2
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	20	20				1 2 C
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		2				2
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		74				2
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		60				2
KUKUIHAELE MILL 206 A	4938	01	HAMAKUA	1	20 08	155 34	300		79				2
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	10	21				1 2
KULANI MAUKA 76 A	5018	05	N HILO	5	19 35	135 27	8300		18				2 C
KULANI SCHOOL SITE 78 A	5021	02	S HILO	2	19 35	155 20	5735		22				2
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	135 41	2615						C
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		27				2
MANUKA 2 A	6134	03	KAU	3	19 07	155 50	1760		40				2
MAUNA KEA BEACH 95	6180	04	S KOHALA	1	20 01	155 50	103	5	3				1 2 3
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	13	14				1 2

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Station		Index No.	Division No.	DISTRICT	Drainage ‡	Latitude	Longitude	Elevation	Years of record: Temp.	Years of record: Precip.	Years of record: Evap.	Opened or closed during yr.: Month opened	Opened or closed during yr.: Month closed	Refer to tables
ISLAND OF HAWAII														
MIDDLE HOLUALOA 69.1	A	6268	04	N KONA	4	19 37	155 58	675		27				2
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1	20 06	155 50	1380		5				2
MOAULA 18	A	6407	03	KAU	3	19 11	155 30	600		50				2
MOUNTAIN VIEW 91		6552	02	PUNA	2	19 33	155 07	1530	32	69				1 2
NAALEHU 14	A	6588	03	KAU	3	19 04	155 35	673	15	80				1 2
NAPOOPOO 78	A	6697	04	S KONA	4	19 28	155 55	395		29				2
NAULU FOREST 38.6		6731	02	PUNA	2	19 19	155 08	1400		5				2
NIULII 179	A	6806	01	N KOHALA	1	20 14	155 45	75		84				2
OOKALA 223		7131	02	N HILO	2	20 01	155 17	430	49	79				1 2
OPIHIKAA 2 24.1		7166	04	S KONA	4	19 16	155 53	1270	12	13				1 2
ORCHID LAND EST 91.5	A	7185	02	PUNA	2	19 34	155 00	445		7				2
PAAUMAU 217		7204	01	HAMAKUA	1	20 05	155 26	415		80				2
PAAUILO 221		7312	01	HAMAKUA	1	20 03	155 22	800		67				2
PAHALA 21		7421	03	KAU	3	19 12	155 29	870	60	78				1 2
PAHOA 65		7457	02	PUNA	2	19 30	154 57	670		90				2
PAKAO 37	A	7643	03	KAU	3	19 22	155 28	5000		41				2
PAPAIKOU 144.1		7711	02	S HILO	2	19 47	155 06	200		71				2
PAPAIKOU MAUKA 140.1		7721	02	S HILO	2	19 47	155 08	1270		44				2
PEPEEKEO MAKAI 144		8000	02	S HILO	2	19 51	155 05	100		79				2
PIIHONUA 89	A	8051	02	S HILO	2	19 44	155 10	1730		44				2
PONAHAKULOA 107	A	8063	02	HAMAKUA	2	19 45	155 32	6511		32				2 C
PUAKO 95.1	A	8186	05	KOHALA	5	19 59	155 50	5		7				2
PUU KIHE 120	A	8393	01	HAMAKUA	1	19 54	155 24	7750		55				2
PUU LAAU 102.1	A	8452	05	HAMAKUA	5	19 50	155 36	7440		37				2
PUU LEHUA 73	A	8460	04	N KONA	4	19 34	155 49	4880		46				2
PUU MALI 113	A	8515	01	HAMAKUA	1	19 55	155 26	6960		37				2
PUUOKUMAU 167	A	8548	01	N KOHALA	1	20 12	155 50	1800		42				2
PUU OO 82		8550	02	S HILO	2	19 44	155 23	6340		4				2
PUU WAAWAA 94.1	A	8555	05	N KONA	5	19 47	155 51	2520		66				2 C
SADDLE ROAD 1 84	A	8590	02	S HILO	2	19 42	155 12	2340		21				2
SOUTH POINT CMPAL 3	A	9675	03	KAU	3	18 57	155 41	500		21				2 C
S POINT TRACKING STA		8679	03	KAU	3	18 57	155 41	305					NOV	C
UPIKOA 118		6780	01	HAMAKUA	1	19 59	155 23	3420		76				2
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1	20 15	155 53	61	11	13				1 2
WAIAKEA SCG 84.2		9025	02	S HILO	2	19 40	155 09	1050		17				2
WAIKANONUULA 178.6		9350	01	N KOHALA	1	20 08	155 47	3830						C

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN

REFERENCE NOTES

Additional ieformatioe regardieg the ciimate of Hawaii may be obtained by writieg to the Eevironmeetal Science Services Administration Regional Climatologiet, P. O. Box 3650, Honoleiu, Hawaii 96811, or to any Weather Bureau Office eear you. Additional precipitation data are contaieed in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unlese otherwise indicated, dimenionai units ueed in thie buiietin are: Temperature ie °F, precipitation and evaporation in inches, and wind movemeet in milee.

EVAPORATION ia meaiured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miiea over the evaporation pan aa determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for aii stations are climatological normals haaed on the period 1931-1960. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 yeare which are used ie place of normals.

STATION NAMES. Figures and lettere followieg the station eame, such as 151.1, are Pieeapple Reeearch Institute gage numbers.

DELAYED DATA AND CORRECTIONS will be carried in the Juee and December issues of Ciimatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- — No record.
- + Aiso oe earlier date (datee) or monthe.
- * Amouet included in followieg measurement.
- A The letter "A" shown following statioe name, (Table 2 and Station Index): Amounts carried in the monthly "Precipitation" column are for the period from iast meaeuremeet of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the moethly Climatological Data for the datee of meaeurement. Measurements made on the first of a month are credited to the last day of the precedieg month.
- H Adjneted to a fell month.
- E Amount ie wholly or partially eatimated.
- M One or more days record miseing; if average value ie entered, less than 10 days record is miseing. See moethly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too emall to meaeure.
- V Inciudes total for previoue month. V in annual column meane totai is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are geeerally exposed in a sheiter located a few feet above sod covered ground; however, the refereece iedicates that the thermometers are exposed in a sheiter located on the roof of a building.
- C Ie Special Column of Station index indicates Recordieg Rain Gage Station. Hourly precipitation vaiues are processed for epecial purposes, and are puhiished later in the "Hourly Precipitatioe Data" buiietie. If daily amouets are published in "Climatological Data" bulletin they are from a separate non-recording gage, eacept where iedicated by refersece 'R'. Such amounte may differ from amounts puhiished from the recording gage in the "Hourly Precipitatioe Data" buiietie.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the December iesue of Ciimatological Data.

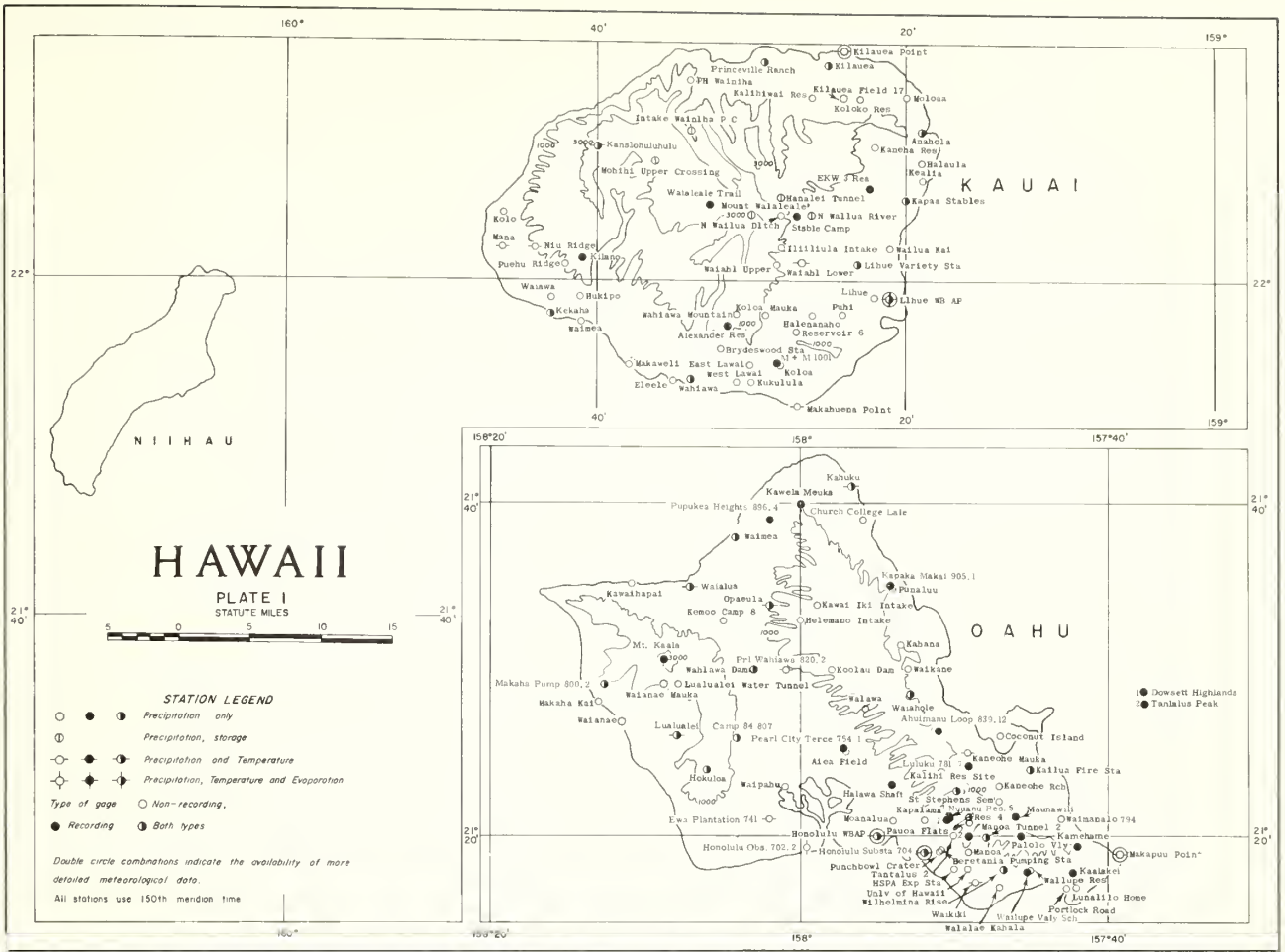
Years of record as shown in the Station Index are approximate since gaps in the recorde may not bave been considered in arriving at the totale sbown.

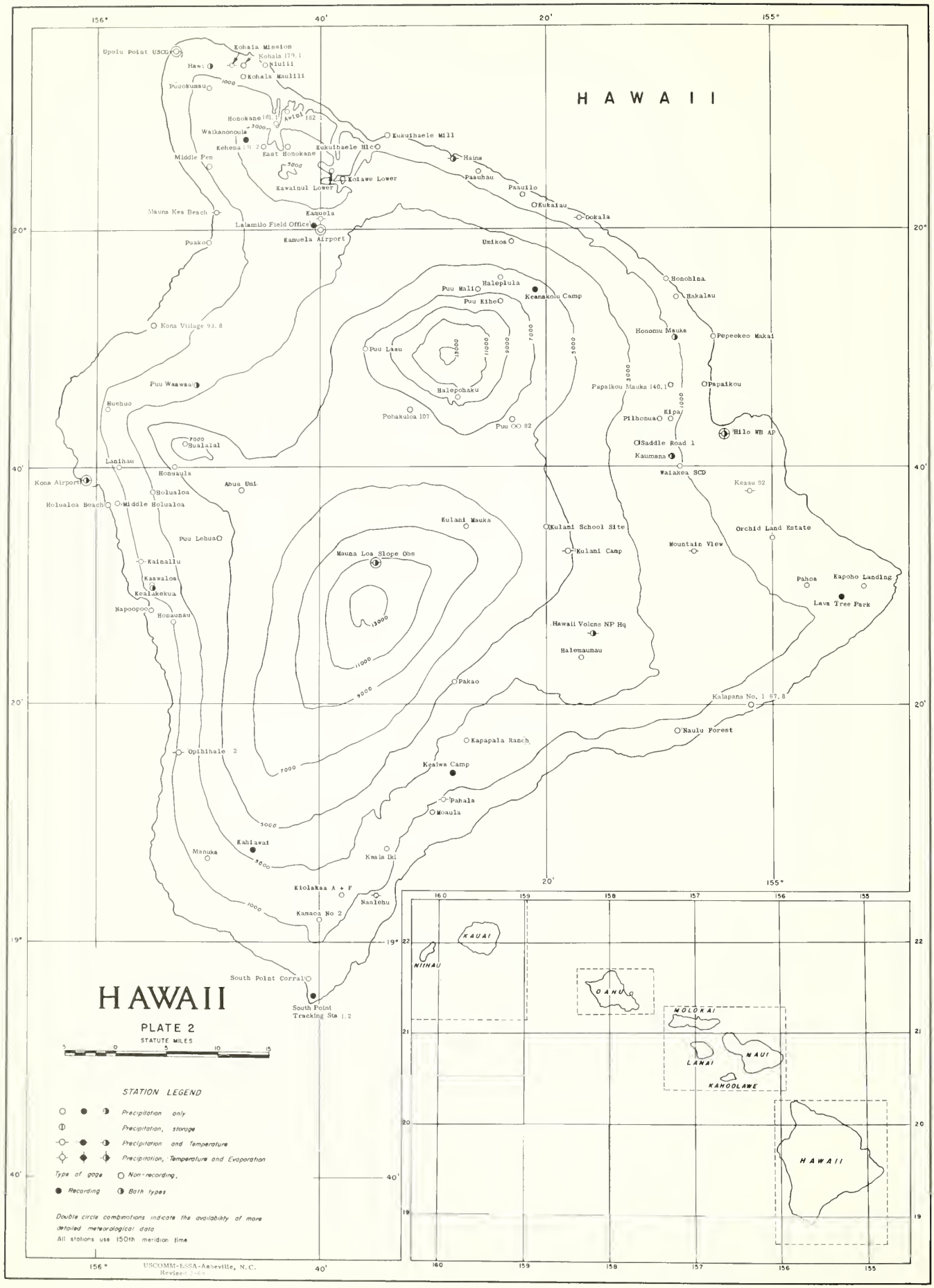
The four-digit identification numbere in the Index are assigned oe an island basis. There will he no duplication of eumbers within an islaed.

Information concerning the history of changes in location, elevatioes, exposuree, etc., of substations through 1957 may he foued ie the publication "Substation History" for this State. That pebication may be obtained from the Superintendent of Documents, Governmeet Printieg Office, Washington, D. C. 20402, for 40 cents. Similar information for regular Weather Bureau statioee may he found in the iatest annual issue of Local Climatological Data, obtained as indicated above, price 15 cents.

Subscription Price: 20 cents per copy, monthiy and annual; $2.50 per year. (Yearly subscription inciudes the Annual Summary.) Checke and money orders should be made payahle to the Superintendent of Documents. Remittancse and correspondenca regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-6/22/70-990


HAWAII
PLATE I
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data.
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
Kilauea Point
Princeville Ranch
PH Walniha
Kilauea
Kalihiwai Res
Kilauea Field 17
Koloko Res
Moloaa
Intake Wainiha P C
Kanaloholuhuluhu
Anahola
Kanaha Res
Mohihi Upper Crossing
Halaula
Kealia
Waialeale Trail
EKW 1 Res
Mount Waialeale
Hanalei Tunnel
Kapaa Stables
N Wailua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Puehu Ridge
Kilauea
Iliilliula Intake
Wailua Kai
Waiahi Upper
Waiahi Lower
Lihue Variety Sta
Wanawa
Hukipo
Lihue
Lihue WB AP
Kekaha
Waimea
Wahiawa Mountain
Koloa Mauka
Puhi
Halenanaho Reservoir 6
Alexander Res
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Meuka
Pupukea Heights 896.4
Church College Late
Waimea
Kapaka Makai 905.1
Punaluu
Kawaihapai
Waialua
Opaeula
Kawai Iki Intake
Kemoo Camp 8
Helemano Intake
Kahana
Mt. Kaala
Prl Wahiawa 820.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 800.2
Lualualei Water Tunnel
Waianae Mauka
Walawa
Makaha Kai
Waianae
Waianae
Ahuimanu Loop 839.12
Lualualei
Camp 84 807
Pearl City Terce 754.1
Coconut Island
Aiea Field
Kaneohe Mauka
Kailua Fire Sta
Kalihi Res Site
Hokuloa
Waipahu
Halawa Shaft
Kaneohe Rch
St Stephens Sem
Kapalama
Nuuanu Res 5
Maunawili
Ewa Plantation 741
Moanalua
Res 4
Manoa Tunnel 2
Waimanalo 794
Honolulu WBAP
Pauoa Flats
Kamehame
Honolulu Obs. 702.2
Honolulu Substa 704
Manoa
Palolo Vly
Makapuu Point
Punchbowl Crater
Beretania Pumping Sta
Tantalus 2
MSPA Exp Sta
Kaaiakei
Univ of Hawaii
Wilhelmina Rise
Waikiki
Waiupe Valy Sch
Lunalilo Home
Portlock Road
Waialae Kahala
1 Dowsett Highlands
2 Tantalus Peak
Keonelele Pens
Kalaupapa
Molokai AP
Kualapuu
Maunaloa 511
Waikolu
Kaunakakai Mauka
Kaunakakai
Kamalo Mauka
Mapulehu
Puuohoku Ranch
Nakalele Fld 60
Honolua Fld 49
Honokohua
Field 46
Mokupea 475
Honokohau
Kahakuloa Mauka 482.3
Haelaau
Waihee Valley
Wahinahina
Kaanapali Airport
Waiehu Camp
Puu Kukui Makai
Kahoma Intake
Kahului WB AP
Hamakuapoko
Paia
Pauwela
Halehaku 492.2
Wahikuli
Kukui
Iao Needle
Wailuku
Spreckelsville
Kailua
Lahaina
Kauaula Intake
Olowalu
Waikapu
Puunene
Keahua
Lupi Upper
Waikamoi
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Haliimaile
Haleakala B E S
Kailiili
Haleakala Ranch
Keanae
Pohakea Bridge
Puohokamoa 2
Waikamoi Dam
Paakea
Hana AP
Ukumehame
Olinda
Kula Heights
Ukulele
Wailua Iki
Kihei
Twin Gates
Honomanu Gulch
Puu Paki
Haleakala RS
Holua Cabin 259.5
Hana
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Polipoli Spgs
Pamlethulu
Hanahuli
Kaupo Ranch House
Ulupalakua Ranch
Kipahulu
Waiopai Rch
Auwahi
Kanepuu 690
Mahana
Lanai City
Lanaihale
Waiakeakua
Kaumalapau Harbor
Malsuva 676
USCOMM-ESSA-Asheville
Revised 2-69


HAWAII
HAWAII
PLATE 2
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
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Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
USCOMM-ESSA-Asheville, N.C.
Upolu Point USCG
Kohala Mission
Kohala 179.1
Niulii
Hawi
Kohala Mauliili
Puukumau
Honokane 181.1
Kehena 182.2
Walkanonoula
Kukuihaele Mill
Kukuihaele Hlc
Middle Pen
East Honokane
Haina
Pauuhau
Kawainui Lower
Kolawe Lower
Pauulio
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Puu Mali
Haleplula
Hakalau
Puu Kihe
Keanakolu Camp
Kona Village 93.8
Puu Laau
Honomu Mauka
Pepeekeo Makai
Puu Waawaa
Papaikou Mauka 140.1
Papaikou
Huehue
Halepohaku
Pohakuloa 107
Puu 82
Kipu
Pihonua
Hilo WB AP
Saddle Road 1
Hualalai
Kaumana
Lanihau
Waiakea SCD
Honuaula
Kona Airport
Keaau 92
Ahua Umi
Holualoa
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Mountain View
Mauna Loa Slope Obs
Kulani Camp
Kainallu
Kaawaloa
Pahoa
Kapoho Landing
Kealakekua
Lava Tree Park
Napoopoo
Honaunau
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 67.8
Naulu Forest
Opihihale 2
Kapapala Ranch
Kealwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kaala Iki
Kiolakaa A + F
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1,2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII

MALL 31 45

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JANUARY 1970

Volume 66 No. 1

MAY 20 1970
S.I., TECH. & AGR. DIV.

CLIMATOLOGICAL DATA

Station		Temperature												Precipitation								
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														7.86	1.14			.0	0				
KANALOHULUHULU 1075		63.4	47.2	55.3		69	30+	31	15		0	0	1	0	21.63		7.02	14	.0	0		16	12	5
KAPAA STABLES 1104	A														6.58				.0	0				
KILAUEA FIELD 17 1135	A														10.05	- .04			.0	0				
KILAUEA POINT 1133		78.7	66.0	72.4		85	31	60	14		0	0	0	0	6.22		2.50	13	.0	0		9	4	2
KOLOA 936	A														9.50	2.59			.0	0				
LIHUE W8 AP 1020.1	R	77.8	65.3	71.6	.7	83	19	56	10		0	0	0	0	7.32	1.81	2.07	3	.0	0		10	5	3
MANA 1026		78.0	60.9	69.5	- 1.6	82	30+	54	31		0	0	0	0	6.09	2.03	1.85	14	.0	0		10	4	2
N WAILUA DITCH 1051	A														18.51				.0	0				
PH WAINIHA 1115															20.82	10.59	5.67	14	.0	0		13	8	6
PUEHU RIDGE 1040															8.33		2.35	14	.0	0				3
WAHIAWA 930	A														6.32	1.29	1.75	6	.0	0				
WAIAHI LOWER 1054		76.0	59.8	67.9		82	31	47	9		0	0	0	0	10.02		2.40	1	.0	0		9	5	4
WAIMEA 947															5.10	1.42	1.82	14	.0	0		6	3	3
ISLAND				67.3											10.31				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															1.02		.53	6	.0	0		3	1	0
HONOLULU W8FC 703	R	81.1	67.3	74.2	1.7	85	31+	58	10		0	0	0	0	1.81	- 1.95	.63	6	.0	0		4	1	0
KAHUKU 912	A	M	M	M		86	21	52	12		0	0	0	0	6.12	.98	2.75	14	.0	0				
KANEOHE MAUKA 781		76.8	65.5	71.2	- .3	81	25+	56	11+		0	0	0	0	12.33	5.03	2.24	4	.0	0		12	9	5
KOOLAU OAM 833															*		2.50	12	.0	0			3	3
LUALUALEI 804		79.8	64.4	72.1		84	31	54	12		0	0	0	0	4.05				.0	0				
MAKAPUU POINT 724		74.2	63.5	68.9		80	20	56	27+		0	0	0	0	5.16	1.57	.96	14	.0	0		9	6	0
NUUANU RES 4 783															6.92	- 3.89	2.14	27	.0	0		12	5	2
OPAEULA 870	A	75.5	59.4	67.5	.7	85	5	50	11		0	0	0	0	9.10	2.37	2.61	14	.0	0				
PALOLO VALLEY 718															10.56	- .36	5.22	3	.0	0		12	4	3
PRI WAHIAWA 820.2	A	78.6	59.6	69.1		88	16	47	12		0	0	0	0	5.95				.0	0				
PUNALUU 884	A														10.10		3.32	14	.0	0				
WAHIAWA OAM 863	A														7.29				.0	0				
WAIAHOLE 837	A														23.80	11.41	9.14	27	.0	0				
WAIALUA 847	A	78.5	61.0	69.8	- .7	84	21+	52	11		0	0	0	0	6.60	2.50	3.58	14	.0	0		7	3	2
WAIKIKI 717.2		81.7M	65.2	73.5M		86	27	55	15+		0	0	0	0	2.38		1.28	14	.0	0		4	2	1
WAIMANALO EXP FARM		78.8	64.4	71.6		85	18	54	10		0	0	0	0	8.65		3.33	27	.0	0		10	4	2
WAIPAHU 750	A														3.97	- .19			.0	0				
ISLAND				70.9											7.40				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														6.29	2.15			.0	0				
MAPULEHU 542															4.00	.14	1.15	11	.0	0		5	3	2
MAUNALOA 511	A														3.91	- .36	.95	14	.0	0				0
MOLOKAI AP 524		76.8	65.5	71.2		80	22+	57	11+		0	0	0	0	4.40		1.16	3	.0	0		10	3	1
ISLAND				71.2											4.65				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	72.7M	58.8M	65.8M	.2	76	19+	51	10		0	0	0	0	6.06	1.44			.0	0				
ISLAND				65.8											6.06				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA B E S 434	A														11.92	4.52	4.30	4	.0	0		13	7	4
HALEAKALA RS 338		57.9	42.5	50.2		67	31	34	9		0	0	0	0	14.35		3.56	15	.0	0		11	8	4
HANA AIRPORT 355		79.0M	63.1M	71.1M		83	22	53	11		0	0	0	0	9.75		1.80	14	.0	0		12	7	4
HONOKOHUA 493	A														5.34	1.28	1.51	27	.0	0			3	2
KAANAPALI AIRPORT		79.1M	65.5M	72.3M		82	22+	57	10		0	0	0	0	5.69		2.02	14	.0	0			3	2
KAHULUI W8 AP 398	R	79.0	63.9	71.5	- .6	83	31+	50	10		0	0	0	0	3.49	.35	.87	11	.0	0		9	2	0
KAILUA 446		77.0	60.1	68.6	.2	82	14	53	10		0	0	0	0	13.36	4.82	4.00	22	.0	0		15	9	2
KEANAE 346	A														22.10	6.87			.0	0				
KIPAHULU 258															10.62	.71	2.54	12	.0	0		12	8	3
KULA SANATORIUM 267		69.1	54.2	61.7	.3	79	29	44	7		0	0	0	0	10.95	6.33	2.06	15	.0	0		12	9	5
LAHAINA 361		80.9	64.9	72.9		85	4	58	10		0	0	0	0	3.62	.83	1.16	12	.0	0		8	3	1
PAIA 406															4.14	.27	.79	12	.0	0		9	3	0
WAILUKU 392		M	M	M		85	22+	56	8		0	0	0	0	5.59	1.80			.0	0				
ISLAND				66.9											9.30				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		78.6	62.7	70.7	1.2	85	15+	59	12+		0	0	0	0	5.00	- .06	2.48	23	.0	0		8	2	1
HAWAII VOLCNS NP HQ 54		68.3	51.4	59.9	1.8	76	29	44	10		0	0	0	0	3.40	- 8.82	.98	5	.0	0			1	0
HILO W8 AIRPORT 87	R	81.1	62.8	72.0	1.2	88	13	59	11+		0	0	0	0	2.76	- 9.06	.72	22	.0	0		7	2	0
HUEHUE 92.1	A														2.29	- 1.84			.0	0				
KAINALIU 73.2		77.5	60.2	68.9		82	17	54	8		0	0	0	0	3.35	- .61	.93	12	.0	0		8	3	0

See Reference Notes Following Station Index
SPECIAL WEATHER SUMMARIES BEGIN ON PAGE 3

CLIMATOLOGICAL DATA

Continued

HAWAII
JANUARY 1970

Station	Temperature													Precipitation								
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days Max. 90° or Above	No. of Days Max. 32° or Below	No. of Days Min. 32° or Below	No. of Days Min. 0° or Below	Total	Departure From Normal	Greatest Day	Date	Snow, Sleet Total	Snow, Sleet Max. Depth on Ground	Snow, Sleet Date	No. of Days .10 or More	No. of Days .50 or More	No. of Days 1.00 or More
KAMUELA AIRPORT 191	72.2	49.1M	60.7M		80	14	41	10		0	0	0	0	4.51		1.47	15	.0	0		9	3	2
KEAAU 92	82.5	62.7	72.6	2.3	90	14	57	11		1	0	0	0	3.10	- 9.46	1.00	4	.0	0		7	2	1
KEALAKEKUA 26.2	78.1	61.0	69.6		82	25+	57	8+		0	0	0	0	2.93		.61	12	.0	0		8	4	0
KONA AIRPORT 68.3	81.9	63.2	72.6		84	26+	54	11		0	0	0	0	1.51		.78	12	.0	0		4	1	0
KUKUIHAELE HIC 199														8.31	2.18	2.40	23	.0	0		12	4	3
KULANI CAMP 79	63.6	43.5	53.6		72	21+	34	29		0	0	0	0	1.71		.30	23	.0	0		7	0	0
PAHALA 21	80.7	60.6	70.7	1.7	91	15	50	11		1	0	0	0	2.20	- 5.83	.71	5	.0	0		5	1	0
POHAKULOA 107 A														2.03				.0	0				0
PUAKO 95.1 A														3.42		1.35	12	.0	0		3	3	2
PUU WAAWAA 94.1 A														2.02	- 1.21	.63	5	.0	0		6	1	0
UMIKOA 118														7.52	.36			.0	0				
WAIAKEA SCD 88.2														3.67		1.38	23	.0	0		7	2	1
ISLAND			67.1											3.51				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 15TH AT PAHALA 21, HAWAII

LOWEST TEMPERATURE: 25° ON THE 9TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 31.12 INCHES AT KAHANA 883, OAHU

LEAST TOTAL PRECIPITATION: .60 INCH AT MAKAHA KAI 796, OAHU

GREATEST ONE-DAY PRECIPITATION: 9.55 ON THE 4TH AT PAAKEA 350, MAUI

SUPPLEMENTAL DATA

HAWAII
JANUARY 1970

	Wind (Speed — m.p.h.)						Relative humidity averages-percent Standard of Time 150TH MERIDIAN				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	18	1.2	6.2	22	NW	15+	81	75	65	79	2	5	5	2	0	0	14	59	5.4
HONOLULU, OAHU, WBFO	28	1.2	9.9	34	SW	13+	80	81	62	74	6	5	3	1	0	0	15	55	5.7
KAHULUI, MAUI, WB AIRPORT	17	2.2	9.4	35	SW	14	84	88	66	81	3	3	7	2	0	0	15	72	4.5
LIHUE, KAUAI, WB AIRPORT	22	1.0	10.7	60	SW	13	81	82	63	78	9	2	5	2	2	1	21	46	6.0

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The month's outstanding weather event was the destructive windstorm of January 13-14, which resulted in the greatest dollar damage ($6.84 million) ever reported in the State for a single weather event and Oahu's highest wind of record (a gust of 96 m.p.h. at Kaneohe Marine Corps Air Station). Damage was most severe in areas to the lee of mountain crests and passes, and the winds so much higher there than in places more directly exposed, as to strongly suggest the influence of terrain in increasing the strength and gustiness of the wind.

Winds over the islands began increasing by the morning of January 13, well in advance of the approaching cold front then still near French Frigate Shoals, about 450 miles west-northwest of Kauai, and moving eastward at about 30 m.p.h. The front was preceded by a wide band of south and southwest winds, which reached sustained speeds of 30 to 45 m.p.h. over the open sea and gusts of 35 to 45 m.p.h. as far distant as central Maui, some 650 miles east-southeast of the front. The atmospheric pressure difference between French Frigate Shoals and Lihue Airport at 8 a. m. on January 13 was 0.3 inches, a large gradient for the subtropics.

As the front approached, wind speeds over the islands increased. By 4:30 p.m. on the 13th, Lihue Airport on eastern Kauai had frequent gusts of 60 to 70 m.p.h.; and at 7:58 p.m., about 1-1/2 hours before the front passed, a peak gust of 84 m.p.h., the strongest recorded there in 19 years of record. Between 7 p.m. on the 13th and 2:30 a.m. on the 14th, Kaneohe Marine Corps Air Station on eastern Oahu registered 60 to 70 gusts of 60 m.p.h. or more and 9 to 12 gusts of 70 m.p.h. or more, including one of 81 m.p.h. at 9:46 p.m., and the strongest gust of the period, 96 m.p.h., at 11:41 p.m., about 3 hours before the front passed.

Other peak gusts included, on Kauai: Kilauea Point, 86 m.p.h.; and Makaha Ridge (elevation 1,614 feet), 93 m.p.h. At Kaena Point (elevation 1,342 feet), an ordinarily windy locality on Oahu, a hand-held anemometer registered a gust of 98 m.p.h., but this could not be counted as official. In contrast, Barbers Point and Honolulu, Oahu, on the coastal plain facing the wind, recorded maximum gusts of only 45 and 42 m.p.h., respectively, about half the magnitude of those observed leeward of the Koolau Mountains.

The greatest dollar damage reported was to the U. S. Army's Schofield Barracks on central Oahu. Most of it occurred over a period of several hours from late on the 13th to early on the 14th. The destructive winds in this area appear to have been highly localized, since points only a mile or so distant in all directions reported little if any damage -- a circumstance which strongly suggests that the southwesterly winds may have been accelerated in passing through Kolekole Pass in the Waianae Mountains, about 3 miles southwest of the Barracks. Wheeler Field, about 2 miles southeast of Schofield, recorded nothing higher than 69 m.p.h., but winds may have been stronger during periods when power outages made the equipment inoperative.

The U. S. Army estimated $4.48 million in damage at Schofield Barracks: 7 large warehouses and shops destroyed, and 50 others damaged: $3.125 million; supplies and equipment destroyed or damaged by wind and rain: $850,000; utilities and communications equipment, $108,000; family housing, $46,000; trees and grounds repair, $50,000; cleanup, $220,000; and miscellaneous, $84,000. Five hundred large trees were blown down.

Most of the remaining damage on Oahu ($1.95 million) occurred in the residential communities of Kailua and Kaneohe, on eastern Oahu, where one $45,000 home was demolished, over 50 roofs partially ripped off or damaged by falling trees and branches, and utility lines downed. Some sections of Kaneohe and Kahaluu were without electricity for up to 36 hours. At the height of the storm, 121 persons were evacuated from the area. The nearby Kaneohe Marine Corps Air Station reported $450,000 in damage: $255,000 to 86 buildings, mostly roofs (damage extensive to 3, moderate to 22, and light to 61); $185,000 to a radar antenna; and $10,000 for the post-storm cleanup. Fifty trees at the Air Station were uprooted or split and 350 others injured.

Other damage on Oahu included $50,000 to City and County property (park structures, street lights, and road cleanup); $100,000 to utilities; $17,000 to State property; $14,000 to plantation-owned structures; and $115,000 to crops -- $95,000 of it to 160 acres of bananas, and $20,000 to 66 acres of papayas.

Kauai reported approximately $341,000 in damage, $155,000 of it to public property, including $100,000 to buildings and experimental crops at the University of Hawaii's Experiment Station at Wailua, and roof and window damage to schools, libraries, and other public buildings. Private property damage amounted to about $161,000: $87,000 to 15 business establishments (mainly to roofs and plate glass); $65,000 to 20 homes (roofs and garages); $10,000 to utilities. Crop losses totalled $25,000, principally to bananas, papayas, and cucumbers.

(Continued)

SPECIAL WEATHER SUMMARY

Of the $60,000 in damage on Hawaii Island, $5,000 was to public property and $14,000 to private property -- mostly to utility wires and poles, but including $8,000 to a home in Kaumana damaged by a falling tree. However, the bulk of Hawaii Island's loss was incurred by papayas: $40,000 to marketable fruit, and an unestimated, but probably much larger sum, to papaya trees, of which an estimated 5-10 percent of all on the island were damaged (including 6,000 destroyed). Most of the affected papaya orchards appear to have been on high ground exposed to the wind or in areas where terrain may have increased its effects.

Maui reported only scattered damage, to utilities and to the roofs of 2 homes, for an estimated $24,000.

The damaging winds of January 13-14 were associated with the fifth of seven cold fronts which passed Honolulu during the month, the greatest number to do so in January, and the second greatest number of fronts in any month (figures based on a study going back to 1937).

The frequency of frontal passages, and the related infrequency of the northeasterly trade winds, were reflected in the number of days -- 14 -- on which the strongest winds of the day (the "fastest mile") at Honolulu International Airport were from the southwest -- the greatest number in any month since such records began there in 1951.

The prolonged dry spell, which in some portions of the State had persisted throughout 1969, was somewhat alleviated on Kauai, Oahu, and Maui by showers which brought rainfall totals near normal for January; but continued in western Molokai and in the Kau and Puna districts of the Big Island, where it spread into the south Hilo district.

The 5 locations listed below reported their twelfth successive month of deficient rainfall.

Kaunakakai, Molokai
Maunaloa, Molokai
Kapapala Ranch, Hawaii
Manuka, Hawaii
Moaula, Hawaii

On the 25th a waterspout extending vertically to the sea surface from well-developed cumulus clouds was observed for about 3 minutes 10 to 15 miles east-southeast of Kamalo on Molokai's south shore, before it gradually retracted into the clouds.

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SPECIAL WEATHER SUMMARY

While not particularly variable or violent by the standards of the rest of the world, Hawaii's weather during the year 1969 did include strong winds, intense rains, flash floods, hail, high surf, and drought, and took a toll of three lives and over $2 million in damages.

Late on January 2 rains of 7 to 10 inches inundated low-lying areas in central Oahu and brought Hawaii its first weather-related death -- a 14-year-old boy swept into a storm drain while playing in a rain-swollen drainage ditch near Pearl City. On the morning of the 5th, a severe thunderstorm moving onto Kauai's west shore from the sea battered the Barking Sands Pacific Missile Range with gusts that momentarily reached 92 miles an hour. Warehouses were demolished, trailers overturned, buildings punctured with flying debris, and nearly half of the base's fifty 30-foot keawe trees uprooted. Damage was estimated at $350,000. On the same day, rainfall at Kokee, Kauai, registered 34.10 inches, the second greatest 24-hour total ever recorded in the State, and the barometric pressure at Honolulu International Airport dropped to 29.47 inches, the second lowest observed there since records began in January 1947.

On January 20 polar air behind a fast-moving cold front ushered in a record-breaking cold spell that gave the islands a taste of Mainland winter. Although afternoon temperatures climbed to the mid-seventies, the nighttime minimums of 52° at Honolulu, 48° at Kahului, and 50° at Lihue (on January 22) were the lowest temperatures ever observed there in 22, 18, and 17 years of record, respectively. At Honolulu Airport the minimum temperature for January 20 to 27 averaged 11° below the January normal.

For a finale, a severe thunderstorm on January 30 raked the eastern third of Oahu with wind and driving rain, and with hail that devastated four acres of lettuce in the Koko Head area, with a loss of $15,000 to $20,000.

February lost no time in following suit. On the afternoon of the very first day of the month torrential rains of up to 5 inches an hour overwhelmed streams and sent flood waters 3 to 5 feet deep racing through the Keapuka Subdivision near Kaneohe, Oahu -- the same locality hit by a similar flood on February 4, 1965, almost exactly 4 years earlier. While many residents fled their homes, the flood did $285,000 in damage to 56 houses and an additional $150,000 to other property. Kahaluu, about 5 miles to the northwest, suffered $70,000 in flood damage from the same storm. On February 14, again in Kahaluu, 200,000 cubic yards of rain-soaked mud slid down a hillside partially burying a house and killing one of four residents asleep inside.

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On February 22 smoke and haze from a volcanic outbreak in Kilauea drifted westward with the trade winds, lowering visibilities in the Kona district to 4 miles at Kailua Airport and to 6 miles at Kealakekua.

February was also one of the windiest months on record, with trade winds unusually strong for weeks at a time. Small craft warnings were in effect on 19 days, gale warnings on 3 days, and high wind warnings on 4 days. On the 21st, gusts reached 50 m.p.h. on Oahu and elsewhere, but damage was confined to a few roofs and trees.

The year continued uneventfully. However, by the end of October it became evident that during the preceding months a widespread and severe dry spell had quietly been establishing itself. Almost everywhere in the State, rainfall had been deficient for 6 or more of the first 10 months of the year; and in some localities had fallen below normal for 8 to 10 successive months. The effects of the dry weather included a brief water emergency in Hawaii's Lalamilo area from October 24 to November 7 and a severe fire which consumed 37,000 acres of forest and brush in south Kohala in late September.

On all islands but Kauai and Oahu the dry spell continued through November. On November 5, strong trade wind gusts of 40 to 45 m.p.h. hit many parts of the State. On Hawaii Island winds swept through the Waimea saddle (gusts reached 69 m.p.h. at Kamuela Airport) and into the ordinarily sheltered leeward coast, causing slight damage in the Mauna Kea Beach area. Along the west Maui coast, trade winds funnelling through mountain gorges to the east downed trees and utility poles and lines and carried reddish dust from fields and construction sites hundreds of feet into the air and at least to Kahoolawe Island, about 15 miles to the south.

The year's most spectacular weather event began on the night of December 1, when huge waves generated by an unusually large and intense low pressure area 1,500 miles to the north-northwest, crashed against the islands, sweeping away homes, boats and cars, and washing out roads and beaches from the north coast of Kauai to the little fishing village of Milolii on Hawaii Island's southwestern shore. Damage was greatest along Oahu's north shore from Haleiwa to Kahuku, where waves were estimated as high as 50 feet. Two days later, early on December 4, heavy surf from a second storm washed into a number of homes in the Mokuleia area of Oahu's north coast. Total damage from the high waves was estimated at $1.25 million, and one life was lost.

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DAILY PRECIPITATION

HAWAII
JANUARY 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • • ISLAND OF KAUAI																																	
ANAHOLA 1111	A	7.86	•	•	•	•	4.52	.32			.70	•	•	.40		1.29			•	•	.03					•	•	.26	.24		.10		
BRYDES#300 STA 985	A	5.89	•	•	•	•	1.00	1.15	.13	.01	.01	•	•	1.30	.02	1.60	.01		•	•	.33	T	.01	.03		•	•	.12	.01	.05	.11		
EAST LAWAI 934	A	9.69	•	•	•	•	2.04	1.40	.18			•	•	2.17	.07	1.64	.01		•	•	.32		.01	.02		•	•	.28		.49	1.06	T	
ELEELE 927	A	6.09	•	•	•	•	.50	2.35	.04			•	•	1.30		1.59	T		•	•	.20			.02		•	•	.08		.01	T		
HALAULA 1110	A	8.20	•	•	•	•	4.82	.30			.63	•	•	.48		1.40			•	•	.02					•	•	.26	.29				
HALENANAHO 1006	A	10.35	•	•	•	•	4.62	.61	.02			•	•	1.59	.06	1.72			•	•	.18			.17		•	•	.33	.02	.87	.16		
HUKIPO 945		5.09					.44	.75						1.21		1.77				.46				.21		.25						
ILILILULA INTAKE 1050	A	16.75	•	•	•	•	4.75	.05			.45	•	•	3.25	1.41	3.97	.06						.27	.15		•	•	.79	.05	.08	1.37	.10	•
INTAKE WAINIHA PC 1006	A	23.26	•	•	10.42	•	2.82	•	•	•	•	•	•	3.39	•	5.11		•	•	•	.39	•	•	.22	•	•	•	.82	•	•	•	.09	
KALIHIWAI RES 1131	A	12.88	•	1.46	•	•	4.60	.20	.03		.62	•	•	.42		2.28	.05								.01	•	•	1.23	.04	.03	1.90	.01	
KANALOHULUHULU 1075		21.63		.64	1.35	.41	.02	.58	.19		2.35	.03	.60	4.06	.04	7.02		.02	.72	.82				1.21		.21	.66	.56		.02	.12		
KANEHA RESERVOIR 1092	A	13.11	•	•	•	•	7.03	.30			1.07	•	•	.76		3.12			•	•	.01					•	•	.30	.04		.46	.02	
KAPAA STABLES 1104	A	6.58	•	•	•	•	4.08	.30			.20	•	•	.40		1.25			•	•	.02					•	•	.17	.06			.10	
KEALIA 1112	A	7.08	•	•	•	•	4.57	.29			.52	•	•	.29		1.08			•	•	.01					•	•	.21	.03		.08		
KEKAHA 944		4.39		.10		.15		.87	.02				.12	.75	.02	1.64			.34					.03		.32		.03				
KILAUEA 1134	A	7.22	•	.61	•	•	2.45	.17	.01		.16	•	•	.29		1.92	.03							.03		•	•	1.26	.07	.02	.19	.01	•
KILAUEA FIELD 17 1135	A	10.05	•	.90	•	•	4.43	.20	.02	.01	.52	•	•	.36		1.79	.02	.01	•	•	.01				.01	•	•	1.33	.06	.06	.30	.02	
KILAUEA POINT 1133		6.22	.28	1.33	.32		.14			.04			.50		2.50	.02						.03			.04	.07	.57	.18	.17	.03			
KOLO 1033		6.22		.35	.44			.49			.07		.98	.60		2.23				.08				.24		.03	.50	.21					
KOLOA 936	A	9.50	•	•	•	•	2.84	1.10	.17			•	•	2.13	.04	1.58			•	•	.23		.02	.04		•	•	.61		.24	.50			
KOLOA MAUKA 994	A	12.23	•	•	•	•	5.15	.64	.11		.02	•	•	2.34	.06	2.04			•	•	.43		.05	.21		•	•	.34		.41	.43			
KOLOKO RES 1137	A	12.59	•	1.29	•	•	5.40	.19	.01		.64	•	•	.30		2.24	.01							.01		•	•	1.45	.40	.22	.43			
KUKUIULA 935	A	8.69	•	•	•	•	1.70	1.82	.05			•	•	2.65	.02	1.62	T		•	•	.17		T	T		•	•	.92		.31	.03			
LIHUE VARIETY STA		•	.95	.02	1.92	1.28	.01	.42			.01	•	•	.91	.01	1.98			.02	.01				.05		.07	.02	.02	.19	.06	.08	.01	•
LIHUE 1020	A	8.91	•	•	•	•	4.78	.60	.04			•	•	.93	.07	1.72	.02		•	•	.04			.07	.01	•	•	.35	.21	.01	.06			
LIHUE WB AP 1020.1	R	7.32	.11	1.02	2.07	.63	.30	.31		T			.74		1.77	T		T	T	T		T	.06		.14	.14	.03	T	T	T			
MAKAHUENA POINT 940.1		8.39	.32		.35	3.84	.11	.17			.01		.10	.34		2.77			.09	.03	.01			.02		.06		.05		.10	.02		
MAKAWELI 965	A	5.06		.01	.23	.03	2.01					.07	.76		1.54			.30	.02				.01		.03	.03							
MANA 1026		6.09		1.03	.49			.66					.99	.25		1.85			.07					.18		.20	.20	.15			.02		
MOHIHI UPR CROSS 1083	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
MOLOAA 1145	A	9.62	•	•	•	•	3.90	.14			.32	•	•	.27		2.50										•	•	1.02	1.38		.09		
MOUNT WAIALEALE 1047		24.36	2.52	1.54	4.81	.63	.12	.43					2.72		4.10	.16		.20	.87	.12			.20			.71	.98		.63	2.91	.59	.08	.04
NIU RIDGE 1035		8.58		1.67	.65	.12	.30	.72			.10			1.50		2.00				.86				.21		•	.35	.07			.03		
N WAILUA DITCH 1051	A	18.51	•	•	•	•	6.00	.46	.10	.20	.30	•	•	3.00		4.50			•	•	.80			.10		•	•	.90	.20	.40	1.20	.35	•
PH WAINIHA 1115		20.82	2.00	.68	3.05	3.15	.05	.26	.08		2.21		.01	1.70	.01	5.67	.14		.02					.43			.47	.56	.01	.03	.29		
PRINCEVILLE RANCH 1117		8.11	2.33	.65		.15			.46	2.62		.20	.07													.50	.54		.09	.50		
PUEHU RIDGE 1040		8.33		.85			.13	.54			.15			1.82		2.35				1.15				.34		•	.88	.04			.08		
PUHI 1013	A	8.72	•	•	•	•	4.22	.63	.02			•	•	1.15	.04	1.71			•	•	.13			.09		•	•	.39	.08	.14	.12			
RESERVOIR 6 1004	A	9.82	•	•	•	•	4.05	.61	.16			•	•	1.69	.08	1.96			•	•	.32		.03	.13		•	•	.36		.35	.08			
WAHIAWA 930	A	6.32	•	•	•	•	.86	1.75	.06			•	•	1.53	.01	1.59	T		•	•	.18			.01		•	•	.09		.22	.02			
WAHIAWA MOUNTAIN 990	A	13.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3.50
WAIAHI LOWER 1054		10.02	2.40		1.90	.30	.07						1.85			2.19							.13	.06			.27			.14	.62	.09	
WAIAHI UPPER 1052		15.05	.59	2.01	2.31	1.02	.02	.03					2.02	1.32		3.28			.35	.36			.05	.02		.28	.29	.05	.02	.11	.83	.09	
WAIAWA 943		4.08		.07	.05	.15		.64					1.04			1.53			.29					.09		.14	.08					
WAILUA KAI 1065	A	6.25	•	•	•	•	3.36	.41			.03	•	•	.37	.02	1.55			•	•	.02			.02		•	•	.15	.32				
WAIMEA 947		5.10					.47	1.10						1.05		1.82				.39				.02			.25						
WEST LAWAI 931	A	7.76	•	•	•	•	1.26	1.68	.07			•	•	2.05	.08	1.39	.01		•	•	.25		.01	.03		•	•	.40		.45	.08	T	
• • • ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	3.97	•	•	•	•	1.32	.63	.02		.02	•	•	.81	.09	.70	.03													.14	.04		
BERETANIA PUMPING STA		2.46	.06		.20	.10		.51	.04					.13	.03	.98		.01	.04		T	T		.02			.23			.03	.03		
CAMP 84 807	A	7.57	.17	.48	•	•	.02	.74	.11		.01	•	•	2.69	•	2.27	.27	•	•	•	.02	•	•	.09	•	•	•	.60					
CHURCH COLLEGE LAIE		16.66	1.10	.60	1.20	.75	1.25	.75	1.20	1.50		.50	1.20	1.40	.05	3.68							.01	.10			.45	.26	.31	.23	.12		
COCONUT ISLAND 840.1		8.14	.21	1.33	.62	.48	.06	.47						.69	.05	1.55	.03							.02			.02	.31	1.73	.50	.06		.01
EWA PLANTATION 741		2.17	.17					.54	.04		.01		.01	.22	.04	.99		T	.01							.13	.01						
HELEMANO INTAKE 881	A	5.69	•	•	•	•	1.20	•	•	.53	•	•	•	•	•	•	3.35	•	•	•	•	•	•	•	•	•	•	.35	•	•	.26	•	•	
HONOLOA 725.2	A	4.83	•	•	•	•	•	1.13	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3.70	•	•	•	•	•	•	
HONOLULU OBSERV 702.2		1.02				.01		.53	.05					.15	T	.08	T							.01			.15	.04					
HONOLULU WBPC 703	R	1.81		T	.04			.63		T			.26		.28	.43		.01				T	.07	T		.02	.07			T		T	
HONOLULU SUBSTA 704		1.95	.15		.10			.50					.15		.26	.48								.03		.15	.10		.03			
H S P A EXP STA 707		2.47	.23			.07		.60	.04		.01			.18	.06	1.00		T	.03			.02		.03			.12			.05	.01		
KAHANA 883	A	31.12	•	•	•	•	11.70	•	•	•	•	•	•	4.20	•	•	•	•	•	•	2.74	•	•	•	•	•	•	.48	•	•	•	•	2.00
KAHUKU 912	A	6.12	•	•	•	•	.75	.44	.03	T	.04	•	•	1.03		2.75	.19							.24		•	•	.43	.06	.08	.08		
KAILUA FIRE STA 791.3		6.40	.07	1.14		.64	T	.89	T	T			T	.17	.05	T	.72	T	.04			.03	T	T	.11	.05	.12	.10	2.00	.23	.02	T	
KALIHI RES SITE 777		14.98	.74		5.68	.54		1.14			.02		.32	.02	.54	.72	.02	.02					.02		.20	.26	.72	3.60	.38	.04		
KANEOHE MAUKA 781		12.33	.54	.64	1.09	2.24	.08	1.15	.08					.84	.08	1.95	.02										.50	.32	2.15	.46	.19		
KANEOHE RANCH 838	A	11.73	•	•	•	•	3.45	1.35	T	T	.01	.01	•	1.14	.55	1.75	T	.01	T	•	.08	.05	T	.23	T	T	•	.48	2.42	.15	.05	T	•
KAPALAMA 773	A	1.59	•	•	•	•	.68	.29																			•	.50			.12		
KAWAINAPAA 841	A	7.96	•	•	•	•	2.67	.48	.05		.18	•	•	1.70		1.75								.65		•	•	.40		.02	.06		
KAWAI IKI INTAKE 880.2	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
KEMOO CAMP 8 855	A	8.90	•	•	•	•	.41	.52	.06		.21	•	•	2.32	.05	4.00		•	•	•	.02	•	•	.58	•	•	•	.65		.01	.09		
KOOLAU OAM 833		•	.30	.36	.09	.37	.04	.43	.09	•	.16	•	.20	2.50	.32	2.08	.03	•	•	•	.02	•	•	.28	•	•	.39	.02	.43	1.18	.05	.03	•
LUALUALEI 804		4.05	•	•	•	•	.53	.47	.05			•	•	1.44	.09	.82	.01	.01	•	•	.05	.04		.04		•	•	.47		.03			
LUALUALEI WTR TUNNEL	A	20.10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	20.10	•	•	•	•	•	•	•	
LUNALILO HOME 724.2		3.28	•	.15		•	1.31		.50					.40	.10		•	•	.05			.05	•	•	.12			.60					
MAKAHA KAI 796	A	.60	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	.60						
MAKAHA PUMP 800.2	A	7.45		.37		•	1.52	.48						2.80	.04	1.57					.01			.11				.55					
MAKAPUU POINT 724		5.16		.01	.61	.94	.03	.58						.30	.13	.96	.02					.02		.52				.91	.13				
MANOA 712		4.02	.35	.02		.84		.52	.04				.03	.49	.08	1.20										.02	.03	.22		.18			
MANOA TUNNEL 2 716		9.22	.24		3.84	.82	.04	.54					.18	.04	.46	1.08	.02				.02						.30	.02	1.10	.52			
MOANALUA 770		2.59	.02			.16	•	.89	T		T		•	.17	.05	.87	•	.01						.05		•	.31	.03		.03			
NUUANU RES 4 783		6.92	.24		1.28	.32		.70		.04			.16		.50	.52		.02	.02	.02			.10			.06	.22	.26	2.14	.28	.04		
NUUANU RESERVOIR 5 775	A	4.89	•	•	•	•	2.08	.47				•	•	.16	•	.95			•	•	.09	.03	•	.03		•	•	.26	.27	.33	.22		
OPAEULA 870	A	9.10	•	•	•	•	1.72	.62	.03		.75	•	.02	2.35	.01	2.61	.13							.33		•	.16	.20	.02	.06	.09		
PALOLO VALLEY 718		10.56	.10		5.22	.88	.02	.40					.18	.02	.42	1.06			.10			.04	.14	.08		.04	.30	.04	1.20	.32			
PAUOA FLATS 784		9.52	.36		3.24	.44	.02	.72		.02			.20	.04	.40	.90	.02	.02			.02	.02	.24	.06		.12	.38	.16	1.06	1.04	.04		
PORTLOCK ROAD 724.4		4.62	.11	.02	.24	.62	.29	.59	.01	.02	.03	.18	.09	.07	.27	.86	.02	.02			.01	.01				.01	.20	•	.84		.01		
PRI WAHIAWA 820.2	A	5.95	•	•	•	•	.44	.32	.08		.10	•	•	2.39	.37	1.66	.05							.12		•	•	.33	.03	.06			
PUNALUU 884	A	10.10	•	•	•	•	2.14	.48	.10		.35	•	•	1.49	.07	3.32	.18	.01						.07		•	•	.16	1.37	.12	.22	.02	•
PUNCHBOWL CRATER 709	A	2.84	•	.37	.01	.11		.50	.03	.05	.02	.03	.01	.21	.06	.90	.02	.01	.04	.01		.01		.03	.02	.01	.25	.02	.01	.05	.02	.02	.02	
ST STEPHENS SEM 788		10.65	.28	.51	1.40	1.38	.15	.82	T		T		.03	.33	.30	1.44	.01	.04	.06			.07		.26	T	T	.32	.35	2.75	.15			
TANTALUS 2 780.5		4.58	.31	•	•	•	1.06	.65			.03	T	.02	.12	.06	1.15	.02		•	•	.10	.02	•	.06	T		.36	.06	.06	.32	.16	.02	
UNIV OF HAWAII 713	A	3.13	•	•	•	•	.65	.55	.01		.01	•	•	.36	.10	1.20	.02		•	•	.01	.01		.02		•	•	.12		.08	T	T	
WAHIAWA DAM 863	A	7.29	•	•	•	•	.82	.59	.15		.40	•	•	2.75	.10	1.92	.07							.14		•	•	.27		.05	.03		
WAIAHOLE 837	A	23.80	•	•	•	•	8.30	.53	.08		.12	•	•	1.89	.11	1.94			•	•	.08			.09		•	•	.56	9.14	.43	.46	.07	
WAIALAE KAHALA 715		2.55	T	.06	T	.22	T	.34	T					.24	.15	1.27	T	T				T		.06	T		.05	.13	T	.03			
ST STEPHENS SEM 787	A	6.60	.04	.06		.20	.03	.26	.02		.26			1.29	T	3.58	T							.57	T		.05	.20		.01	.03		
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIANAE MAUKA 803	A	4.67	•	•	•	.40	•	•	1.06	•	•	.50	•	•	.51	•	•	•	•	.50	•	.02	•	•	•	1.42	•	•	•	•	.12	•	.14	
WAIAWA 836	A	8.38	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	8.38
WAIKANE 885	A	30.27	•	•	•	•	11.47	•	•	•	•	•	•	3.56	•	•	•	•	•	•	2.60	•	•	•	•	•	•	.29	•	•	•	•	2.35
WAIKIKI 717.2		2.38		.05	T	.14	T	.52	T		T			.22	.04	1.28	T							.02			.04	.05	T	.02			
WAIMANALO EXP FARM		8.65	.01	.15	.37	.86	.07	.30	.02		T			.42	.20	1.89	.01	.08	.02	T		.01		.29		.01	.05	.54	3.33	.02			
WAIMEA 892	A	7.76	•	•	•	•	3.15	.52	.06		.22	•	•	.70		2.03	.05							.55		•	•	.28		.15	.05		
WAIPAHU 750	A	3.97	•	•	•	•	.53	.92	.05			•	•	1.08	.05	1.04	.01	.02	•	•	.05	T		T		•	•	.15		.07			
WILHELMINA RISE 721		3.66			1.00		.02	.48					.36		.38	1.10										•	.10		.08	.14			

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII JANUARY 1970

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • • ISLAND OF MOLOKAI																															
KALAUPAPA 565	A	9.00	1.76	.54	.28	.56	.11	•	•	•	.07	•	•	.59	.09	1.11	•	•	•	•	•	•	•	•	.96	•	1.07	•	2.06	•	•	•	•
KAUNAKAKAI 556	A	2.44						.18						.73	.22	.96					.04							.31					
KEONELELE RFNS 551	A	5.07						.46						.76			1.85															
KUALAPUU 554	A	6.29		•	•	•	2.00	.12	.05		.05		•	.63	1.08	.92	.08			•	.16	.51		.35			•	.50	.02	.02			
MAPULEHU 542		4.00			.42	.04	.54	.02		.06			1.15		1.00	.09						.03					.05	.48		.07	.05		
MAUNALOA 511	A	3.91	•	•	•	•	.45	.18			.10	•	•	.80	.02	.95	.18		•	.07		.35		.45	•	•		.36	.02				
MOLOKAI AP 524		4.40		T	1.16	.49	.02	.15	T		.11	T		.55	.10	.76	.10	T	T	.02	T	.06		.41	T		T	.40	.07	T			
PUUOHOKU RANCH 542.1		4.76	.25	T	.24	.25	.15	.05	•	.26	•	•	.48	T	.76	.15	T	•	•	•	•	•	.59	.04	•	•	.52	.95	.15	•	T	.02	T
WAIKOLU 540	A	11.74	•	•	•	•	5.35	•	•	•	•	•	•	3.34	•	•	•	•	•	•	2.90	•	•	•	•	•	•	2.15	•	•	•	•	•
• • • ISLAND OF LANAI																															
KANEPUU 690	A	5.10	•	•	•	•	•	•	•	•	•	•	•	•	T	•	4.06	•	•	•	•	•	•	.65	•	•	•	•	•	•	.41		
KAUMALAPAU HARBOR 658	A	5.15	•	•	•	•	.05		.70		.10	•	•	.61	T	1.48	.06	•	•	•	T		.05	•	•	•	•	.10	.02		•		
LANAI CITY 672	A	6.06		T	T	•	.04		1.22	T	.08		•	1.52	.02	.50	1.47	T	T	•	.25	.01		.16	.07	•	•	.24	.57	.10	.05	T	
LANAIHALE 684	A	7.55	•	•	3.90	•	•	•	•	•	•	.10	•	•	•	•	•	.94	•	•	•	•	•	•	•	1.06	•	•	•	•	•	1.53	
MAHANA 894	A	5.28	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5.28	•	
HALAUEA 676	A	4.95	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4.30	•	•	•	•	•	•	.49	•	•	•	•	•	•	•	•	
WAIAKEAKUA 685	A	6.41	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5.55	•	•	•	•	•	•	•	•	•	•	•	•	•	.16	1.06	•
• • • ISLAND OF MAUI																															
AUWAHI-252	A	9.07	•	•	•	•	•	4.90	•	•	•	•	•	2.00	•	•	1.70	•	•	•	.15	•	•	•	.17	•	•	.15					
HALEAKALA 8 E S 434	A	11.92	.32	.70	.02	4.30	.15	.65	1.17		.32			1.74		.05	1.27		.02					.55	.16	.01		.06	.24	.19			
HALEAKALA RANCH 432	A	9.31	•	.98	•	1.86	.14	.51	1.22	•	.17	•	•	1.59	•	•	1.66	•	•	•	•	•	•	.56	.04	•	•	.09	.49	•	•	•	•
HALEAKALA RS 538		14.35	.26	.57	.01	.78		1.80	.50		.20	T	T	1.65	.90	3.50	3.56							T		.01	.01	.01	.79	.01	.01		
HALEAKALA SUMMIT 538.4		10.90	•	•	•	•	.17	1.58	.11			•	•	.90	.87	•	7.01									•	•	.05	.43	T			
HALIIMAILE 425	A	6.54	•	.68	•	•	1.21	.02	.73		.17	•	•	.65	.05		1.16				.10			.92	.54	•	•	.04	.52	.15			
HAMAKUAPOKO 485		4.76	.28	.20	.02	.50	.03	.01	.65	.01	.03			.74	.02	.02	.70	T	.08	T				.40	.16	T		.04	.95	.09	T	.03	
HANA 354		10.97	•	1.50	.10	•	1.80	.84	.58		.04		•	.50	.20	2.50	1.15							.85	.16	.14	•	.28	.96		.14		.03
HANA AIRPORT 355		9.75	1.50	.22	T	1.65	.22	.66	.05		.02			.20		1.80	.09							1.55	.23	.72	.06	.70	.07	.20	.05	T	
HANAMULI 281		10.44		T		1.41		1.60	.22					2.95	.49	1.05	.40									1.15		.10	.81	.11	.15		
HOLUA CABIN 259.5	A	11.89	•	•	•	•	•	1.18	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	10.50	•	•	•	•	•	•	.21	•	•
HONOKOHAU 480	A	14.36	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	14.36	•
HONOKOHUA 495	A	5.34	•	.54	•	•	.06	.02	.84		.02	•	•	.29	.11	.39	1.12	•	•	•	.02		•	•	.05	.06	•	•	.38	1.51	.11	.02		
HONOHANU GULCH 341	A	15.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	15.50
KAANAPALI AIRPORT		5.69	.58	T		.18	.03	1.40	.05	•	.10			.44	.46	2.02	.05									T		.06	.52		T		
KAHOHA INTAKE 574	A	7.00	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	7.00	•	
KAHULUI WB AP 398	R	5.49			.12	.07		.35		.10			.87	.09	.36	.71		T			T		.05	.30			T	.52	.19	T			
KAILILILI 456	A	3.03	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3.05	
KAILUA 446		13.36	1.14	1.45		.60	.23	.87	.84		.24			.69		.01	1.05	.01	.10	.01				4.00	.32	.05		.09	1.37	.16	.17		
KAUAULA INTAKE 575	A	9.89	•	•	•	•	4.12	•	•	•	•	•	•	1.87	•	•	•	•	•	•	2.86	•	•	•	•	•	•	.28	•	•	•	.76	•
KEAHUA 410		4.04	.06	.20	.01	.45	.15	.04	.47	T	.02			.53	.05	.02	.86	.05	.02	T				.70	.02	T		.04	.54	.05			
KEANAE 346	A	22.10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	22.10
KEAWAKAPU BEACH 260.2		5.40		.05				1.05	.63		.01			.98	.24	.01	1.64		.11					.04				.45	.21				
KIHEI 311		4.20					.12	.12	.88					1.00	.04	.06	1.13				.65			.15	T			.07	T				
KIPAHULU 258		10.65	1.38			.84		1.54	.50					2.54	.95	.90										.50	.32	.48	.60	.16	.05		.09
KULA HEIGHTS 525.2		8.31	.24	1.25		.51		.52	1.01		.14			1.89	.02	.08	1.88		.02					.14		.05		.05	.52	.01			
KULA SANATORIUM 267		10.95	.22	.81		.02		.63	1.22		.06			1.43	.10	.60	2.06	T	.02	.01				.04	.07	.52	.01	.10	1.52	.01	1.50		
LAHAINA 361		3.62	.15			.05		.90	.18					1.16	.02	.17	.64				.08							.12	.15				
LAUNIUPOKO INTAKE 376	A	6.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	6.50
LAUNIUPOKO VILLAGE 372	A	4.62				.15		.50	.57		.14			1.60	.08	.10	.90				.18							.15	.43				
LUPI UPPER 442	A	14.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	14.00	•
MAHINAMINA 466	A	7.52				1.67		1.07	.16					.54	.05	1.30	1.22							.14				.10	1.22	.05			
NAKALELE -FLO 60-497	A	6.02	•	•	•	•	.65	•	•	•	•	•	•	1.02	•	•	•	•	•	•	1.93	•	•	•	•	•	•	.80	•	•	•	•	1.64
OLINDA 332	A	9.96	•	•	•	•	2.72	.92	.87	.01	•	•	•	1.73	.01	.34	2.00	.01	•	•	.04			.23	.01	.11	•	•	.95	.01	•	•	•
OLOWALU 296		2.76	.08					.20	.55					.84	.12	.15	.78				.02							.02	.02				
OLOWALU GULCH 377	A	8.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	8.00
PAAKEA 550		18.25	1.18			9.55	.95	.07	.47		.13			.27	.04	.08	.70							1.37	.70	.25	.05	.07	1.10	.88	.59		
PAIA 405		4.14	.09	.05		.25	.05	.04	.45	T	.10			.79	.02	.02	.64		.12	T				.36	.04			T	.71	.45			
PANILEIHULU 259.2	A	55.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	35.00
PAUWELA 490	A	3.95	•	•	•	•	1.40	.16	.40	•	.03	•	•	.06	•	•	•	•	•	•	•	•	•	.07	.21	•	•	.13	1.47				•
POHAKEA BRIDGE 307.2	A	4.14	•	•	•	1.04	.15	.22	.18	•	•	•	•	.95	.42	.03	.95	•	•	•	.16	•	•	.01		•	•	.01	.06		•	•	•
POLIPOLI SPRINGS 267.2	A	9.80	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	9.80	•	•
PUOHOKAMOA 2 545	A	21.20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	21.20
PUU KUKUI MAKAI 472	A	9.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	9.00	•
PUUNENE 596		3.15				•	.22	.15	.25		.01			.78	.37	.05	.80							.58	.07			T	.08	.01			
SPRECKELSVILLE 400.2		3.31	.16	.02	.01	.14	.15	.08	.18		.12			.85	.08	.05	.66		.04					.25	.01			.01	.56	.16			
TWIN GATES 261.5	A	7.14	•	•	•	•	•	•	2.50	•	•	•	•	2.05	•	•	2.06	.18	•	•	•	•	•	•	•	•	•	.55	•	•	•	•	•
UKULELE 353	A	8.72	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	8.72
UKUMEHAME 301	A	5.15	.12					.22	.50					.79	.08	.08	1.13				.08							.18	.06				
ULUPALAKUA RANCH 230		8.42		.85				1.90	.58		.04			1.77	.08	.22	1.90		.04		.05				.07	.03		.58	.08	.65	.02		
WAHIKULI 364	A	3.69	.20			.08		.12	.98		.15			.92	.02	.25	.67				.02							.18	.05	.05			
WAIEHU CAMP 484	A	9.02	•	•	•	1.20	.19	•	.90	•	.16	•	•	1.10	.14	1.86	1.53	•	•	•	•	•	•	.45	.19	•	•	.06	1.06	.20	•	•	•
WAIHEE VALLEY 482	A	11.54	•	•	•	2.06	.58	•	.75	•	.26	•	•	.70	.26	2.01	1.50	•	•	•	•	•	•	.54	.58	•	•	.21	2.06	.25	•	•	•
WAIKAMOI 449	A	15.80	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	15.80
WAIKAMOI DAM 536	A	15.58	•	•	•	•	8.11	.62	.49	.01	•	•	•	1.31	•	•	2.78	.01	•	•	.01	T		.56	.21	.38	•	•	1.50	.26	.02	.01	•
WAIKAPU 390	A	5.34	•	•	•	1.72	.21	.51	.30	•	•	•	•	1.15	.15	.11	1.00	•	•	•	.02	•	•	.07	.04	•	•	.03	.21	.02	•	•	•
WAILUKU 592		5.59	•	•	•	•	.76	.48	.30		.05	•	•	1.71	.13	.55	.86							.27	.11	•	•	.01	.56	.20			
WAIOPAI RANCH 256	A	6.67	•	.56				•	•	•	1.68	•	•	2.64	•	•	1.22													•	•	.57	
• • • ISLAND OF HAWAII																																	
AHUA UMI 75	A	2.10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2.10
AWINI 182.1	A	14.48	•	•	•	•	2.04	.05	.84			•	•	.70		.05	.87				.59			.65	7.49	•	•	.22	.82	.17	.03	.18	•
EAST HONOKANE 183.2	A	15.84	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	15.84	•
HAINA 214		5.00	.11	.02		.33	.45	.05	.57					.05			.09								2.48	.65		.30	.09			.10	.02
HAKALAU 142		5.61	.50	.40	.01	1.55	.47	.01	.01					.02	.05		.01	.02							.75	.98		.62		.13	.18	.05	.05
HALEMAUMAU 52	A	3.62	•	•	•	•	•	•	•	•	•	•	•	1.67	•	•	•	•	•	•	•	•	•	•	1.42	•	•	•	•	•	•	.53	
HALEPIULA 117	A	1.93	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.95	
HALEPOHAKU 111	A	2.99				.45		1.22	T		T		.32			.03	.97										T	.15	.02	.09	.22	.05	.01
HAWAII VOLCNS NP HQ 54		5.40	.05			.26	.98	.02	.14	T		.20	.09	•	.18	.01	.03	.03	.37	.08	.02	T	•	•	.22	.24	T	.15	.02	.09	.22	.05	.01
HAWI 168	A	8.65	•	•	•	•	.60	.16	1.82		.13	•	•	.84			.95		•	•	.12				1.52	•	•	1.62	.75	.11		.01	•
HILO WB AIRPORT 87	R	2.76	.15		.07	.55	.01	.02				T												.72	.52			T	.33	.16	.55	.06	.02
HOLUALOA 70	A	7.40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	.20		•	•	
HOLUALOA BEACH 68	A	2.49					.55			.25				.96		.75										.05	.05	.10	.05	.15	.46	.02	
HONAUNAU 27		4.04	.07	.03	.10	.05	.20	.50	.48	.02	.05	.02	.02	.05	.10	.50	.30	.02	.07	.80					.72	.87		.22	.05	.11	.25	.09	.16
HONOHINA 157		4.85	.65	.04	.01	1.55	.50	.01	.01					.01	.02			.02															
HONOKANE 181.1	A	15.31	•	•	•	•	4.28		1.85		.04	•	•	.97			1.17				.31			.75	4.51	•	•	•	•	•	1.62	.03	•
HONOMU MAUKA 138		8.75	.94	.25		2.00	.82	.12					.19		.40		.02								2.51	.50		.16		.14	.18	.12	.58
HONUAULA 71	A	3.40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5.40	•
HUALALAI 72	A	.54	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.54	•
HUEHUE 92.1	A	2.29	•	•	•	•	.69	•	•	•	•	•	•	•	•	•	1.60	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KAALA 1K1 12	A	2.92	.09	.21	.01	.80	.22	.46	.14						.54		.04	.03							.34	.02		T		.02			•
KAAWALOA 29	A	5.27			•	•	.28	.46				•	•	.02	T	T	.49		.01	.04	.03							.94	.26	.19			
KAINALIU 75.2		3.55			.20	.02	.11		.38					.93			.55		.52	T	T					.08	.06	.02	.45	.50	.18			
KALAPANA NO 1 67.8		1.51		T		T	•	•	.22	.01	T	.20	T		.11	T	T	•	.46	.20	•	•	•	•	.28	•	•	•	•	•	•	•	•
KAMAOA NO 2 5	A	3.73	•	•	•	1.85	•	•	.52	•	•	•	•	.42	•	•	•																
KAHUELA 192.2		6.36	.05			.28	.10		1.38		.06			.48	.14		2.15		.90	.18				.16	.52			.14			.02		
KAHUELA AIRPORT 191		4.31	T			.11	.05	T	1.02		.10			.49	.01		1.47	T	.75	.12				.06	.14		.85		.19	T			
KAPAPALA RANCH 36	A	3.76	•	•	•	1.81	•	•	•	.10	.05	•	.17	•	•	•	•	•	•	.52	.46	•	•	•	1.07	•		•	•	•	•	.62	•
KAPOHO LANDING 93.5	A	4.80	•	•	•	•	•	•	•	•	2.45	•	•	•	•	•	•	.66	•	•	•	•	•	•	•	•		•	•	•	•	•	•

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII
JANUARY 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAUMANA 88.1		3.55	.49	.03	.01		.23	.01	.04						.06										1.27	.73				.22	.18	.10	.18
KAWAINUI LOWER 193	A	20.68	*	.92	*	*	*	*	*	*	10.53	*	*	*	*	*	*	1.27	*	*	*	*	*	*	6.15	*	*	*	*	*	*	1.81	*	*
KEAAU 92		3.10	.43			1.00	.15		.28						.05										.78	.08				.08	.10	.15	.02
KEALAKEKUA 26.2		2.93			.10	T	.18		.52					.61			.51		.02	.04	T				T			.51	.24	.20	T	
KEHENA 181.2	A	17.98	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.98	*
KIOLAKAA A & F 6	A	3.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.20
KIPA 89.2	A	5.08	1.07	.07	.13	.10	.48	.03	.07						.15										1.74	.42				.18	.22	.27	.15
KOHALA 179.1	A	6.87	*	*	*	*	.42	.07	1.03		.12	*	*	.46	.01		.45	.01	*	*	.32				1.62	*	*	1.22	.70	.42		.02	*
KOHALA MAULILI 176	A	8.66	*	*	*	*	.20	.05	.99		.14	*	*	.80	.01		.57	.01	*	*	.28			.05	3.54	*	*	.76	1.09	.10		.07	*
KOHALA MISSION 175.1		9.06	.01	.13	T	.16	.12	.06	1.17		.19		.05	.49			1.59		.39		T		T		2.27	.80		.31	.97	.24	.01	.03	.07
KOLAWE LOWER 196	A	14.25	*	.30	*	*	*	*	*	*	8.40	*	*	*	*	*	*	1.51	*	*	*	*	*	*	3.59	*	*	*	*	*	*	.45	*
KONA AIRPORT 68.3		1.51				T	.15		.37		T			.78	T		.21														T		
KONA VILLAGE 93.8		2.92				.02		.20		.30	.01		.87	.02		1.45					.05											
KUKAIAU 222		10.55	.02	T		4.70	.67	.06	.13					.01			T								3.69	.84			.22		.01	.20	T
KUKUIHAELE MIC 199		8.31	.15	.05		1.76	.64	.01	.40					.10			.26		.01					.04	2.40	1.80		.12	.20		.12	.25
KUKUIHAELE MILL 206	A	6.33	*	.13	*	*	.68	.01	.33			*	*	.05			.10								3.65	*	*	1.04	.21			.13	
KULANI CAMP 79		1.71	.05	.03		.17	.12		.23	.03					.08		.06								.30	.12	.01	.09	.02	.10	.24	.04	.02
KULANI MAUKA 76	A	.57				.13		.28			.01													.07					.02	.06			
KULANI SCHOOL SITE 78	A	1.37	*	*	.05	*	*	*	*	*	*	.46	*	*	*	*	*	*	.05	*	*	*	*	*	*	.42	*	*	*	*	*	*	.39
LANIHAU 68.2		4.50					.27	.42						.72			.35		.26										1.47	.93	.08		
MANUKA 2	A	1.73	*	*	*	*	.63	.06	.58	T	T	*	*	.12	.09		.05	T	*	*	T				.01				.06	.12	.01		
MAUNA KEA BEACH 98		6.54				.07			2.27	T	.02			2.12	T		2.06	T														
MAUNA LOA SLOPE OBS		1.79				.20		1.04						.06	.06	.39	.06															
MIDDLE HOLUALOA 68.1	A	2.71	*	*	*	*	.45	*	*	.23	*	*	*	.87	*	.76	*															
MIDDLE PEN 147.1	A	5.01	*	*	*	*	*	*	*	2.54	*	*	*	1.07	*	*	.90	*	*	*	*	*	*	*	*	*	*	.50	*	*	*	*	*
MOAULA 18	A	1.72	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.72
MOUNTAIN VIEW 91		4.64	.54			1.24	.18	.04	.70						.10										.63	.18			.18	.56	.15	.14	
NAALEHU 14	A	2.26	.01	.47		.29	.53	.23	.20						.37	.05	.01								.09					.01			
NAPOOPOO 28	A	1.57	*	*	*	*	.42	*	*	*	*	*	*	.84	*	*	*	*	*	*	.31									*	*	*	*
NAULU FOREST 38.6		1.92	.07	.20	T	.22	*	*	*	T	T	.02		*	.16					.50	T	.02	T		.24	.09	.01	.02	.04	T	.16	.02	.06	.09
NIULII 179	A	6.82	*	*	*	*	.71	.01	.66		.07	*	*	.55	.02		.23		*	*	.20				1.80	*	*	1.45	.65	.45	.02		*
OOKALA 223		5.00	.11	.06		1.38	.78	.01	.43		.02							.01		.02					1.21	.39		.02	.25		.04	.23	.04
OPIHIHALE 2 24.1		3.66	T	.39	.32	.46	T	1.35	T				.30	.01		.14	.01		.01	.02	T							T	.37	.28	T		
ORCHID LAND EST 91.5	A	2.81	*	*	*	*	*	*	*	*	1.41	*	*	*	*	*	*	.01	*	*	*	*	*	*	.57	*	*	*	*	*	*	.82	*
PAAUHAU 217		4.21	.08			.68	.58		.28					.02			.06								1.86	.39		.12	.02			.09	.03
PAAULO 221		10.28	.02	T		5.18	.63	.02	.14	T	T			.01			T	T	.01						2.84	1.04	.05	.01	.11	T		.22	
PAHALA 21		2.20	.23	.04	.05	.49	.71	.07				.10	.25		.07		.01	.05		.03					.07	.01		.02					
PAHOA 65		4.42	.51			1.17	.17	.03	.06						.36				.25						.85	.23				.10	.58	.09	.02
PAKAO 37	A	6.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.90
PAPAIKOU 144.1		6.06	1.87	.01		.74	.87	T						T	.11	T									1.37	.29			.01	.43	.26	.05	.05
PAPAIKOU MAUKA 140.1		6.22	1.09	.00		.59	.45	.04	.04						.75										1.68	.40	T		.01	.27	.10	.64	.08
PEPEEKEO MAKAI 144		7.09	.64			1.50	.63	.01	.01		.07		.20		.33	.01									1.75	.69		.78	.01	.11	.28	.06	.01
PIIHONUA 89	A	8.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.00
POMAIKUOA 107	A	2.03	*	.03	*	*	.23	*	*	*	.87	*	*	.10	*	*	.79	*	*	*	*	*	*	*	*	*	*	*	.01	*	*	*	*
PUSKO 95.1	A	3.42						T	1.13	T	.01			1.35	T	T	.92												.01				
PUU KIHE 120	A	.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80
PUU LAAU 102.1	A	2.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.82
PUU LEHUA 73	A	2.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.40
PUU MALI 113	A	1.59	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.59
PUUOKUMAU 167	A	8.96	*	*	*	*	1.17	.01	1.18	.01	.26	*	*	.83	.01		1.89	.01	*	*	.17	.01			2.10	*	*	.35	.59	.35	.02		*
PUU OO 82		1.90	.04		T	.01	.20	.05	.44		T						.23								.20	.30	T	T	.23	.20	T		
PUU WAWAA 94.1	A	2.02			.10		.63		.10		.04			.38			.36									.09	.02				.30		
SADDLE ROAD 1 84	A	3.18	*	*	*	*	*	*	*	*	1.00	*	*	*	*	*	*	.10	*	*	*	*	*	*	.98	*	*	*	*	*	*	1.10	*
SOUTH POINT CORRAL 3	A	1.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.70
UMIKOA 118		7.52				*	2.83	.20		.82				.02			.04	.12	.18	*	.02				2.76	.47		.03	.02			.01	
UPOLU POINT USCG 139.2		6.09				T	.01	.04	2.39		.50			1.53			.86		.01					.01	.25	.07		.30	.07			.05
WAIAKEA SCS 88.2		3.67	.37				.35	.05	.04						.04				.01						1.38	.58			.03	.35	.17	.09	.21

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	66	65	59	62	65	59	63	53	56	62	59	63	65	58	63	63	63	69	65	65	60	66	64	61	61	68	69	68	69	69	68	63.4
	MIN	47	47	47	53	41	43	48	49	42	44	45	50	50	52	31	40	53	58	47	51	55	38	42	53	55	49	45	50	53	43	43	47.2
KILAUEA POINT 1133	MAX	78	82	83	78	76	78	80	74	81	79	75	80	80	83	73	79	82	83	84	80	78	78	80	81	76	75	75	75	74	76	85	78.7
	MIN	68	67	64	67	63	63	64	64	63	64	67	67	61	60	62	68	68	64	68	70	67	67	69	66	64	64	68	69	69	70	70	66.0
LIHUE WB AP 1020.1	MAX	78	77	74	74	81	79	75	75	74	75	77	77	79	79	72	79	80	82	83	81	78	75	77	82	74	77	80	79	80	79	81	77.8
	MIN	69	65	69	69	63	61	59	59	58	56	62	60	69	60	57	60	71	68	65	70	70	64	61	72	68	64	70	73	73	73	66	65.3
MAKAHUENA POINT 940.1	MAX	78	81	79	83	75	78	81	81	80	74	80	80	80	80	78	78	79	82	82	83	84	87	84	79	76	84	79	81	81	80	79	80.2
	MIN	69	67	67	65	64	66	61	58	55	60	57	65	68	69	56	70	69	72	67	65	73	66	64	67	67	70	71	72	68	67	69	65.9
MANA 1026	MAX	82	80	79	77	76	80	77	76	74	73	79	72	78	75	76	76	80	76	82	81	82	76	77	79	80	74	79	80	81	82	80	78.0
	MIN	69	64	63	66	63	59	59	60	61	64	63	60	62	60	60	57	56	56	57	57	57	62	58	59	65	61	66	62	65	64	54	60.9
NIU RIDGE 1035	MAX	80	82	80	81	78	77	72	71	70	69	70	75	76	71	70	70	73	75	75	74	78	76	77	79	78	72	77	80	79	80	80	75.6
	MIN	58	60	60	60	58	58	56	52	53	52	53	54	60	58	50	54	60	60	60	59	60	58	56	60	57	55	59	60	59	60	61	57.4
WAIAHI LOWER 1054	MAX	70	76	74	72	74	78	78	73	75	71	69	78	75	77	78	75	77	79	78	80	74	74	75	75	78	76	79	79	78	79	82	76.0
	MIN	65	68	67	63	53	61	50	52	47	65	65	54	59	64	49	53	65	66	68	58	60	54	56	62	65	58	60	64	64	60	59	59.8
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	82	83	78	79	80	80	78	80	77	77	80	80	80	78	77	82	83	83	82	83	82	78	80	81	81	80	83	81	81	81	85	80.5
	MIN	65	62	64	68	61	63	56	59	55	51	54	59	64	69	55	57	65	69	62	65	66	64	63	63	64	64	64	66	67	63	61	62.2
HONOLULU WBFC 703	MAX	82	81	81	82	82	81	78	80	78	76	80	79	82	79	77	80	81	82	81	81	82	79	82	81	82	81	85	84	85	84	85	81.1
	MIN	69	69	68	70	65	66	62	66	60	58	62	64	72	68	61	65	73	72	68	70	71	68	67	68	70	69	68	71	71	70	66	67.3
HONOLULU SUBSTA 704	MAX	80	79	78	77	78	77	74	77	75	74	77	74	78	76	75	79	79	79	78	79	78	75	80	79	78	77	79	78	78	79	82	77.6
	MIN	69	68	68	68	67	63	63	64	61	59	64	65	71	68	62	66	72	72	69	72	70	69	69	70	70	69	70	72	73	72	71	67.9
KAHUKU 912	MAX					79	78	77	79	80			80	79	84	76	76			85	81	86	84	75			80	76	80	78	79		
	MIN					64	63	58	59	60			52	60	66	53	53			61	61	62	66	67			61	63	69	70	71		
KANEOHE MAUKA 781	MAX	80	76	80	72	75	78	78	76	76	74	74	75	78	77	77	75	79	79	81	80	80	80	75	74	81	71	72	77	76	79	77	76.8
	MIN	67	65	65	65	64	65	61	61	61	56	56	58	62	71	60	59	62	73	72	73	71	68	67	67	68	67	68	69	70	70	71	65.5
LUALUALEI 804	MAX	82	82	83	78	81	80	80	77	79	76	78	78	79	77	77	75	81	82	81	81	80	80	77	79	82	83	80	81	80	81	84	79.8
	MIN	68	69	66	66	62	64	58	58	58	56	60	54	61	69	59	59	69	72	64	67	69	69	65	66	69	64	65	65	70	70	66	64.4
MAKAPUU POINT 724	MAX	78	74	79	72	74	74	75	74	65	71	74	76	76	71	75	72	73	72	73	80	79	71	76	75	78	76	71	74	75	71	75	74.2
	MIN	70	64	66	68	66	60	65	64	56	57	60	61	68	66	56	67	58	58	59	68	71	56	64	69	71	65	56	64	71	60	63	63.5
OPAEULA 870	MAX	75	76	69	70	85	75	75	75	75	72	75	70	70	71	73	80	80	79	82	81	74	79	74	77	75	73	75	75	74	77	80	75.5
	MIN	64	63	63	62	56	57	56	54	57	52	50	58	57	64	53	53	67	64	52	62	64	60	58	64	62	58	58	64	64	60	64	59.4
PRI WAHIAWA 820.2	MAX	81	82	71	75	84	81	74	78	76	76	72	76	79	77	77	88	81	80	80	82	81	79	75	76	73	80	81	81	77	81	84	78.6
	MIN	64	60	62	65	59	58	53	52	55	48	54	47	56	68	53	53	64	68	62	62	62	62	60	61	66	62	61	64	65	62	59	59.6
WAIALUA 847	MAX	78	79	79	70	73	78	76	76	79	74	76	78	78	80	76	75	82	84	83	84	84	83	75	78	81	76	80	82	78	80	80	78.5
	MIN	62	64	62	66	61	59	56	56	60	54	52	58	60	68	56	56	57	72	64	63	65	64	59	60	66	65	62	62	62	59	60	61.0
WAIKIKI 717.2	MAX	83	84	83	83		82	80	79	81	78	78	80	79	82	79	80	82	83	83	84	84	85	80	80	83	83	86	82	82	81	82	81.7
	MIN	64	65	65	68	61	66	57	67	55	58	58	60	66	70	55	56	70	73	66	68	73	68	66	65	69	66	69	70	72	67	68	65.2
WAIMANALO EXP FARM	MAX	80	80	80	74	78	78	78	76	77	76	76	76	77	78	78	78	84	85	84	84	82	81	78	75	80	80	76	78	77	79	80	78.8
	MIN	61	64	65	66	64	63	57	58	62	54	58	59	58	69	58	59	70	71	66	68	70	67	66	64	70	66	65	68	69	70	70	64.4
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	79	78	80	78	77	77	77	76	76	74	74	74	77	75	76	74	78	78	79	76	78	80	73	77	77	77	74	78	78	78	77	76.8
	MIN	66	66	69	64	65	65	61	60	62	57	57	64	64	71	64	62	69	70	70	70	70	66	66	64	64	67	67	70	68	68	65	65.5
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX		76	74		70	72	74	75	73	73		71	69	67	71	73	74		76	75	73	72	74			74	72	72	72	73		72.7
	MIN		62	59		61	59	56	58	58	51		55	54	57	57	59	58		64	62	60	57	59			63	61	60	58	62		58.8
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	58	59	56	54	51	55	49	59	54	53	50	55	53	52	54	61	63	63	63	62	65	64	61	61	56	58	61	59	58	61	67	57.9
	MIN	43	42	40	41	40	43	36	40	34	36	38	43	45	49	42	45	47	49	47	45	49	43	39	38	39	43	39	43	44	41	53	42.5
HALEAKALA SUMMIT 338.4	MAX					49	47	42	43	44			44	42		44	47			54	55	58	54	54			56	49	48	49	53		
	MIN					32	34	28	34	27			27	37		34	35			39	41	41	41	40			35	37	34	34	40		
HANA AIRPORT 355	MAX	80	80	81	79	77	77	77	77	78	75	75	79		81	77	77	81	82	80	81	82	83	72	80	80	81	79	80	80	80	80	79.0
	MIN	68	65	62	64	62	61	56	57	57	55	53	66		60	59	59	68	64	64	61	62	65	65	66	66	66	69	69	68	65	71	63.1
KAANAPALI AIRPORT	MAX	82	81	80	80	79	79	79		79	74	76	78	78	75	75		80	81	81	80	79	82	81	80		81	75	80	81		81	79.1
	MIN	66	65	66	66	63	64	60		63	57	64	68	70	70	62		60	71	67	66	71	68	68	65		67	62	67	69		63	65.5
KAHULUI WB AP 398	MAX	81	80	79	77	78	76	77	77	73	75	77	81	80	78	76	80	81	82	81	80	80	73	79	82	83	75	81	82	81	82	83	79.0
	MIN	65	62	63	68	61	61	54	56	55	50	60	68	72	71	59	58	73	71	69	66	70	68	66	62	71	66	66	64	67	60	60	63.9
KAILUA 446	MAX	75	75	76	76	76	76	74	75	75	73	71	81	73	82	78	78	79	81	80	80	78	79	68	72	77	81	81	80	81	81	75	77.0
	MIN	62	61	61	60	59	60	56	55	57	53	55	58	60	61	58	58	61	61	61	63	61	60	60	61	61	62	62	65	64	64	64	60.1
KEAWAKAPU BEACH 260.2	MAX	82	83	83	85	81	84	75	80	80	78	80	80	80	82	76	81	81	85	86	85	85	85	76	83	83	87	77	82	85	85	83	81.9
	MIN	64	62	63	65	61	61	55	59	62	54	58	67	70	75	61	59	68	67	67	63	69	66	63	63	71	65	62	63	61	58	60	63.3
KULA SANATORIUM 267	MAX	69	69	70	71	69	70	65	67	65	64	65	68	70	68	65	68	72	78	72	71	70	71	64	68	69	71	66	70	79	68	69	69.1
	MIN	53	54	58	59	56	57	44	45	51	49	50	55	57	63	51	52	59	56	57	56	57	55	53	54	57	58	56	54	51	52	50	54.2

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	84	83	81	85	82	81	79	79	80	79	76	77	81	79	76	82	77	80	82	82	81	82	81	81	82	81	79	84	83	84	84	80.9
	MIN	65	64	64	65	63	64	61	62	61	58	61	65	67	70	61	62	70	70	71	66	68	67	64	65	69	67	65	66	65	63	64	64.9
WAILUKU 392	MAX					79	76	78	77	80			77	81	78	77	75			85	84	83	85	73			83	72	76	78	78		
	MIN					63	62	58	56	57			63	62	70	59	59			68	64	66	66	65			63	66	69	69	67			
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	76	77	79	79	74	77	76	78	80	76	76	82	81	85	85	77	80	80	82	81	80	80	74	72	80	82	76	78	79	79	77	78.6
	MIN	62	62	63	64	62	62	63	63	64	59	59	59	65	60	66	61	64	65	65	64	63	63	64	63	63	63	63	65	62	63	60	62.7
HAWAII VOLCNS NP HQ 54	MAX	70	71	68	69	62	68	61	67	68	66	61	64	69	69	74	65	64	66	70	75	71	70	70	68	70	69	66	69	76	74	67	68.3
	MIN	53	52	48	54	50	53	48	47	46	44	47	52	55	57	55	55	58	51	48	46	54	47	56	51	56	53	52	54	51	51	50	51.4
HILO WB AIRPORT 87	MAX	81	82	81	77	78	78	79	79	76	78	79	84	88	84	76	80	82	87	85	84	82	81	74	83	82	83	84	83	80	81	83	81.1
	MIN	63	64	63	66	62	61	59	60	60	60	59	63	62	68	68	60	65	64	62	61	61	60	65	63	64	65	65	64	64	64	62	62.8
KAINALIU 73.2	MAX	77	77	77	77	76	76	71	77	79	75	76	80	79	80	79	75	82	78	78	77	78	80	78	78	80	79	78	76	76	77	78	77.5
	MIN	60	60	59	61	59	61	55	54	58	56	57	63	65	68	59	60	64	61	58	59	61	59	61	63	65	60	63	59	60	61	57	60.2
KAMUELA 192.2	MAX	76	76	75	77	69	74	74	73	74	68	69	74	72	78	74	74	73	72	77	77	75	75	72	72	76	75	72	71	70	69	70	73.3
	MIN	48	46	48	51	55	54	52	48	51	40	43	47	57	58	56	56	56	54	54	50	53	46	49	56	56	50	53	58	57	50	44	51.5
KAMUELA AIRPORT 191	MAX	74	73	75	75	68	72	68	72	67	69	70	76	70	80	76	71	73	71	71	76	73	75	71	70	73	75	71	71	70	71	70	72.2
	MIN	50	48	47	50	48	50	48	48	52	41	48	55	45		45	57	50	52	55	46	46	47	50	55	55	48	51	46	53	44	44	49.1
KEAAU 92	MAX	83	82	85	83	79	80	82	79	79	77	82	84	83	90	86	77	83	87	87	86	85	83	81	81	82	84	83	82	81	79	81	82.5
	MIN	63	63	63	63	62	60	59	59	59	59	57	60	64	74	68	63	65	66	62	61	61	59	62	66	65	65	65	65	63	62	62	62.7
KEALAKEKUA 26.2	MAX	78	78	79	79	76	78	71	79	76	75	76	82	81	81	79	76	82	78	79	79	78	81	78	78	82	79	77	74	77	78	78	78.1
	MIN	61	61	61	62	59	60	57	57	58	58	58	63	65	69	59	60	64	60	60	60	62	60	62	63	65	61	64	61	61	61	58	61.0
KOHALA MISSION 175.1	MAX	78	79	78	79	75	75	73	77	76	74	74	80	80	83	80	79	80	81	81	79	79	82	70	71	78	81	76	77	77	77	77	77.6
	MIN	62	63	62	64	62	62	65	61	61	59	59	64	67	73	63	63	64	66	65	63	63	63	65	65	65	66	65	66	67	67	61	63.9
KONA AIRPORT 68.3	MAX	82	82	80	83	80	80	79	80	80	78	84	84	81	82	82	80	83	84	83	82	81	84	84	83	83	84	82	82	83	82	82	81.9
	MIN	63	63	62	62	61	63	65	64	64	64	54	57	65	69	62	62	64	64	64	62	62	62	64	66	63	62	66	66	65	64	66	63.2
KULANI CAMP 79	MAX	65	67	72	66	61	66	60	64	62	61	60	65	69	62	66	59	63	69	67	60	72	69	65	69	67	51	54	58	61	61	62	63.6
	MIN	46	45	45	47	45	46	38	38	44	38	38	35	46	41	55	55	48	58	46	36	42	40	42	46	44	41	47	50	34	36	38	43.5
MAUNA LOA SLOPE OBS	MAX	47	51	50	49	45	42	44	44	39	41	42	42	46	44	45	50	49	52	54	59	54	58	54	56	59	50	50	50	52	52	54	49.2
	MIN	29	32	34	31	32	31	28	28	25	29	32	32	34	37	35	36	36	35	33	35	37	36	37	38	37	36	33	32	32	32	38	33.3
MOUNTAIN VIEW 91	MAX	78	78	78	78	78	74	75	72	74	77	71	71	75	82	80	71	83	83	83	82	80	80	79	79	79	79	76	78	74	72	78	77.3
	MIN	55	55	55	55	55	57	55	54	54	51	51	51	60	69	63	58	56	56	56	56	57	56	58	58	58	58	59	60	58	58	56	56.7
NAALEHU 14	MAX	79	79	79	79	80	78	79	81	84	84	80	80	82	81	82	78	78	82	83	80	82	83	80	80	83	83	81	80	80	80	80	80.6
	MIN	61	61	61	62	62	62	62	59	62	62	59	58	69	69	69	63	63	63	63	63	60	64	66	65	65	65	67	67	67	65	65	63.5
OOKALA 223	MAX	80	80	80	79	76	77	74	76	78	75	74	78	80	80	82	75	80	82	82	80	79	81	75	73	80	81	78	78	78	72	78	78.1
	MIN	62	60	70	67	63	63	63	62	63	61	62	62	64	65	69	63	65	67	67	65	64	64	64	67	68	65	65	67	66	64	65	64.6
OPIHIHALE 2 24.1	MAX	75	73	73	72	76	73	71	74	73	73	81	77	82	77	75	82	79	75	75	79	75	74	75	76	79	72	74	73	74	78	77	75.5
	MIN	57	58	58	59	57	55	55	57	52	52	55	63	66	60	56	60	59	57	57	57	57	57	56	58	58	58	58	57	58	55	55	57.3
PAHALA 21	MAX	83	82	82	82	80	79	85	80	79	78	71	81	82	82	91	73	79	89	80	81	82	81	80	76	83	79	80	80	80	81	81	80.7
	MIN	59	60	59	60	62	61	61	59	59	52	50	54	64	67	69	62	64	60	57	58	61	62	61	63	62	63	62	63	62	61	62	60.6
UPOLU POINT USCG 159.2	MAX	88	80	82	81	79	78	75	78	78	76	78	83	81	83	83	77	81	84	83	82	81	82	82	76	81	82	77	79	80	78	79	80.2
	MIN	68	67	69	69	67	68	66	64	65	64	64	65	70	76	67	68	70	70	68	68	70	69	67	68	70	68	68	69	69	67	65	67.8

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.17	.20	-	-	.10	-	.19	.18	.14	.27	.10	.31	.16	-	.20	.14	.12	.15	.34	.19	.06	.13	.34	*	.27	.07	.15	.21	.07	.23	.29	5.498
	WIND	136	47	81	202	75	51	59	59	92	80	112	105	80	231	58	55	113	121	62	117	132	53	91	73	77	33	73	128	158	162	160	3076
	MAX	83	87	86	74	74	80	84	78	71	75	77	74	80	74	82	78	77	82	87	83	83	79	78	75	84	84	82	84	82	83	83	80.1
	MIN	65	62	62	62	61	60	54	54	53	71	51	56	57	64	54	53	58	64	62	62	62	59	58	59	66	61	60	67	66	64	62	60.3
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.12	.15	.14	.15	.07	.19	.08	.14	.15	.15	.15	.07	.10	-	.15	.10	.18	.14	.18	.13	.13	.17	.13	.15	.11	.08	.10	.16	.13	.19	.15	4.178
	WIND	11	9	18	25	11	20	20	12	37	16	23	67	28	115	34	21	63	25	24	18	43	53	17	20	33	23	16	16	28	31	19	896
	MAX	84	88	86	85	81	81	80	81	81	79	79	75	81	84	82	81	82	88	89	88	88	88	80	85	82	86	89	88	85	86	84	83.7
	MIN	64	66	65	64	60	60	59	59	56	56	53	61	60	69	57	57	63	70	67	67	67	66	61	61	65	66	65	66	64	62	62	62.5

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE †	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	00	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1111 A	0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985 A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934 A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1	0465	00	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927 A	0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110 A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006 A	1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	1170	00	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050 A	2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131 A	2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092 A	3104	01	KAWAIHOU	1	22 08	159 23	630		7A			LIHUE PLANTATION
KAPAA STABLES 1104 A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112 A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134 A	4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135 A	4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	00	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936 A	4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994 A	4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137 A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935 A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020 A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1 R	5580	02	LIHUE	2	21 59	159 21	103	M10	M10	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965 A	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M+M 1001	6097	00	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROSS 1083 A	6433	01	WAIMEA	3	22 07	159 36	3500		M10		S	U S GEO SURVEY
MOLOAA 1145 A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		M10		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051 A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	6893	00	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEMU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013 A	8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004 A	8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	00	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930 A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990 A	8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAMI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065 A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931 A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	00	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761 A	0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 64 807 A	0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPUKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8	0438	00	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			EWA PLANTATION CO
HALAWA SHAFT 77192	0964	00	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881 A	1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2 A	1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WBFC 703 R	1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	M10	M10		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	00	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883 A	2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912 A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	00	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838 A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	00	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773 A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841 A	3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2A	3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KAWELA MAUKA 906.3	3825	00	KOOLAUPOKO	1	21 40	158 00	1050				C	CLOSED 12/2/69
KEMOO CAMP 8 855 A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL A	5650	04	WAIANAE	4	21 29	158 08	1500		VAR			U S NAVY
LULUKU	5655	00	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LOM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796 A	5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2 A	5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN M.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	00	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	00	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870 A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1	7933	00	EWA	3	21 25	157 58	240				C	JAMES MUMEND
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2 A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884 A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709 A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	00	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	00	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713 A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863 A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837 A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847 A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798 A	9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 803 A	9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836 A	9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885 A	9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE RESV. 723.2 A	9495	02	HONOLULU	2	21 18	157 45	170					CLOSED 12/31/69
WAILUPE VLY SCH 723.6	9500	00	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892 A	9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750 A	9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563 A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6	3046	00	MOLOKAI	1	21 04	156 52	60				C	W.J. CARSTEN
KAUNAKAKAI 536 A	3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	00	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551 A	4394	01	MOLOKAI	1	21 12	157 12	560					MOLOKAI RANCH, LTD.
KUALAPUU 534 A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511 A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL & LIBBY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE †	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF MOLOKAI												
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
WAIKOLU 540 A	9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690 A	3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
KAUMALAPAU HARBOR 658 A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672 A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684 A	5301	01	LAHAINA	1	20 49	156 53	3370				C	ST. DIV OF FISH & GAME
MAHANA 694 A	5704	01	LAHAINA	1	20 53	156 55	1430					DOLE COMPANY
MALAUEA 676 A	6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685 A	9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252 A	0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	00	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	0790	00	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434 A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432 A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LOCKHEED SP & MIS DIV
HALEHAKU 492.2	1016	00	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIHAILE 423 A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO.
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5 A	1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480 A	1882	04	LAHAINA	4	20 55	156 36	870					MAUI LAND-PINEAPPLE CO.
HONOKOHUA 493 A	1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO.
HONOLUA FLD 49 494	1914	00	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO.
HONOMANU GULCH 341 A	1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	00	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	00	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374 A	2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WB AP 398 R	2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	U S WEATHER BUREAU
KAILIILI 436 A	2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	00	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346 A	4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	4887	00	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPPLE CO.
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442 A	5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466 A	5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	00	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO.
NAKALELE -FLD 60-497 A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO.
OLINDA 332 A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377 A	7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2 A	7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
PAUWELA 490 A	7857	01	MAKAWAO	1	20 55	156 19	485		7A			HASEROT PINEAPPLE CO.
POHAKEA BRIDGE 307.2 A	8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOMOKAMOA 2 343 A	8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472 A	8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	8553	00	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3 A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333 A	8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301 A	8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364 A	8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484 A	9275	03	WAILUKU	5	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482 A	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449 A	9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336 A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390 A	9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	00	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392	9484	03	WAILUKU	3	20 54	156 30	200	8A	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256 A	9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75 A	0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1 A	0190	01	N KOHALA	1	20 10	155 43	1870					KOHALA DITCH CO LTD
EAST HONOKANE 183.2 A	0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52 A	1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117 A	1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111 A	1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168 A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87 R	1492	02	S HILO	2	19 43	155 04	27	M10	M10	M10	C J	U S WEATHER BUREAU
HOLUALOA 70 A	1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68 A	1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1 A	1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71 A	2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72 A	2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1 A	2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12 A	2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29 A	2327	04	N KONA	4	19 30	155 55	1340		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	00	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NU 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAHAOA NO 2 5 A	3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36 A	3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5 A	3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193 A	3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	[illegible]	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2 A	4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6 A	4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2 A	4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1 A	4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176 A	4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196 A	4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE MIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206 A	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76 A	5018	05	N HILO	5	19 35	155 27	8300		VAR		C	U S WEATHER BUREAU
KULANI SCHOOL SITE 78 A	5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	00	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MANUKA 2 A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103	8A	8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1 A	6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA

STATION INDEX

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
HIGGLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
HOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6597	04	S KONA	4	19 28	155 53	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAMO EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULIO 221	7314	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7469	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO. INC.
PAPAIKOU 1.4.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		VAR		C	STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6311		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5			6A		ERWIN H. RAPP
PUU KIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8432	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUMAU 167	A 8540	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A			DON WINTERS
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2320		7A		C	GILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANOMOULA 178.6	9350	00	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH
STATIONS CLOSED												
KAWELA MAUKA 906.3	3825	00	KOOLAUPOKO	1	21 40	158 00	1050				C	CLOSED 12/2/69
WAILUPE RESERVOIR 723.2	9495	02	HONOLULU	2	21 18	157 45	170					CLOSED 12/31/69

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table; "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES. Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

H Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

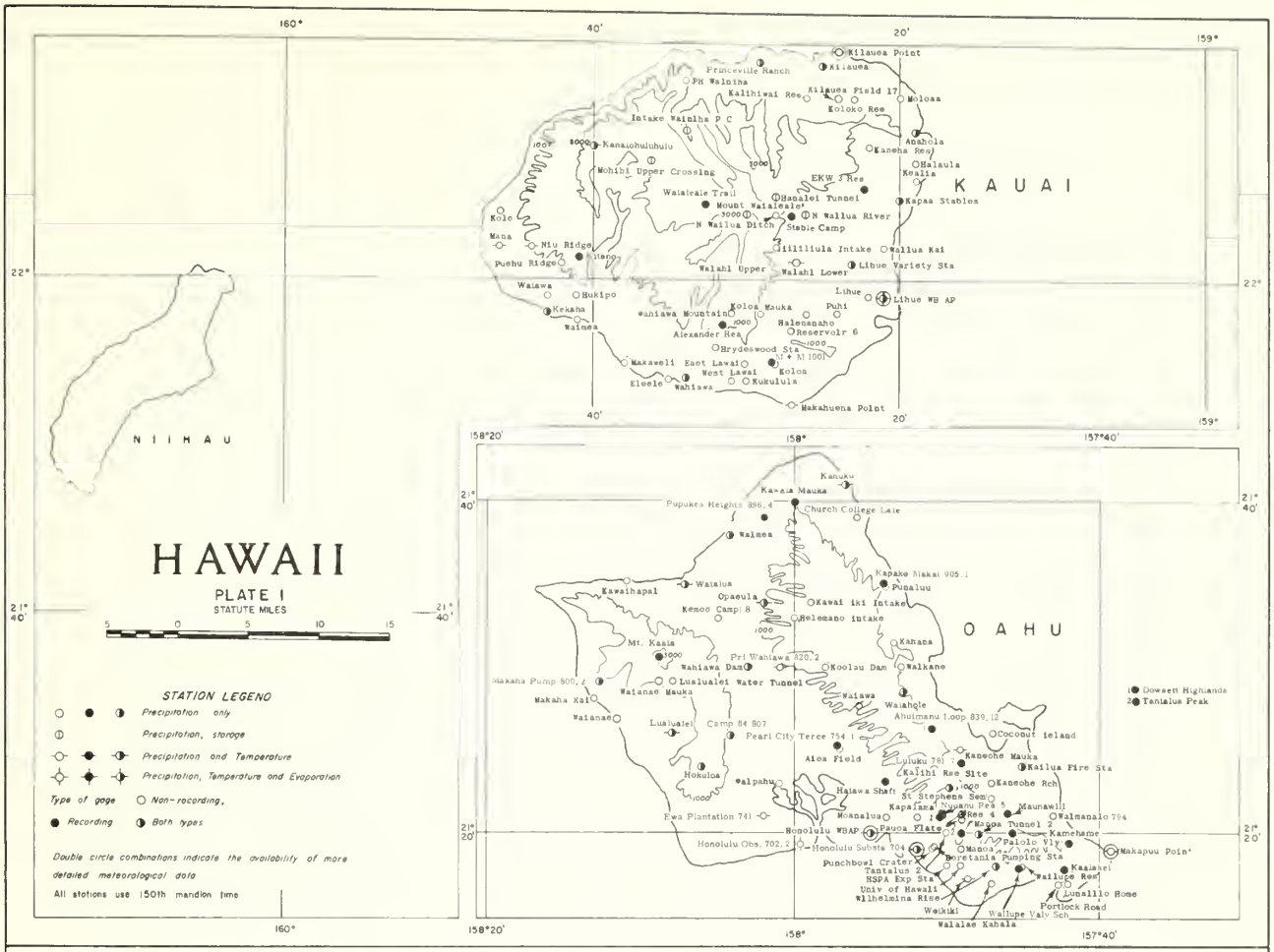
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

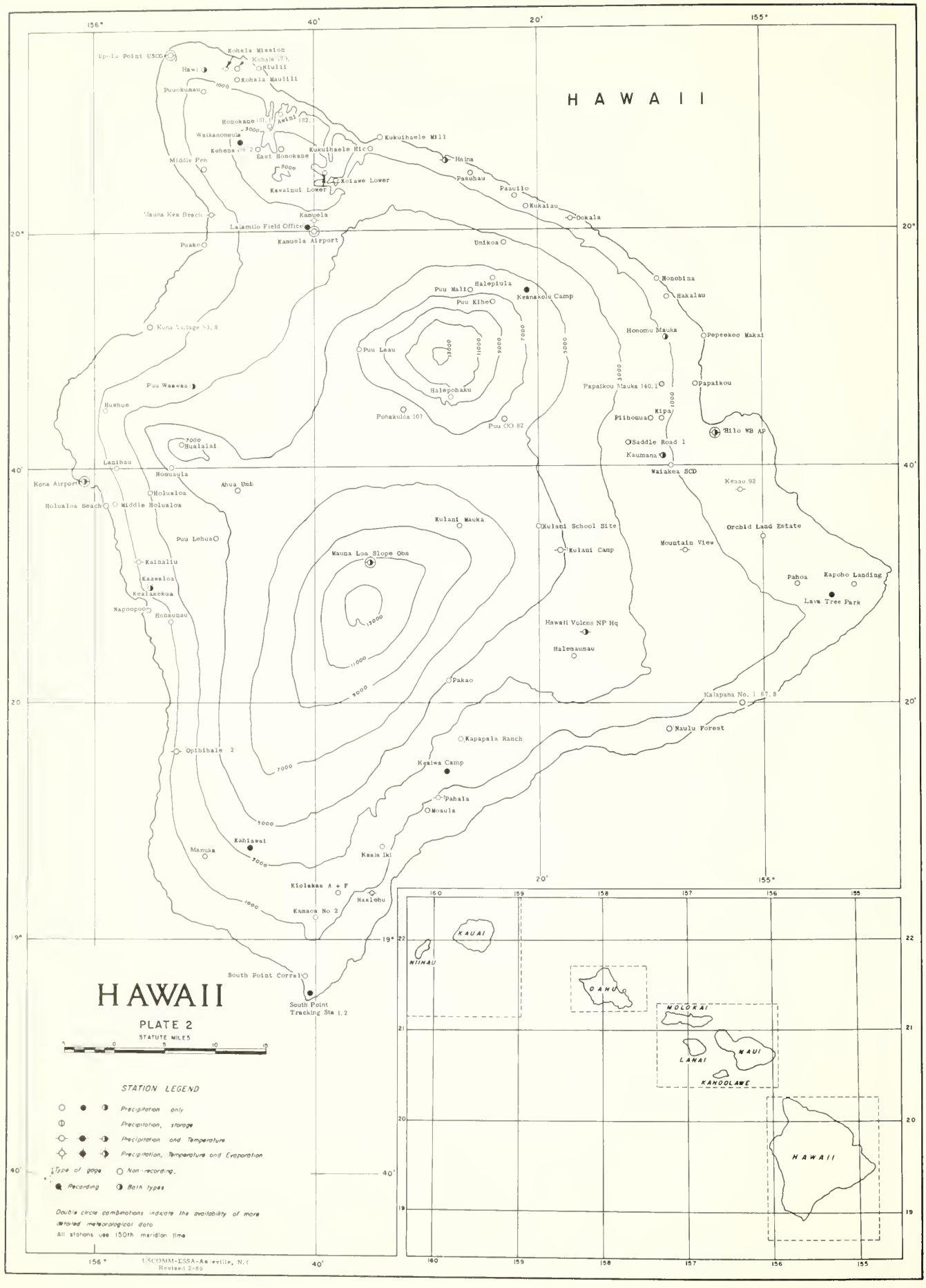
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 30 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-6/7/70-890


HAWAII
PLATE I
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
1 Dowsett Highlands
2 Tantalus Peak
Kilauea Point
Princeville Ranch
PH Wainiha
Kilauea
Kalihiwai Res
Kilauea Field 17
Koloko Res
Moloaa
Intake Wainiha P C
Kanaiohuluhulu
Kaneha Res
Anahola
Halaula
Kealia
Mohihi Upper Crossing
EKW 3 Res
Kapaa Stables
Waialeale Trail
Mount Waialeale
Hanalei Tunnel
N Wailua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Puehu Ridge
Lihiliiula Intake
Wailua Kai
Lihue Variety Sta
Walahi Upper
Walahi Lower
Waiawa
Hukipo
Kekaha
Waimea
Lihue
Lihue WB AP
Waianiha Mountain
Koloa Mauka
Puhi
Halenanaho
Alexander Res
Reservoir 6
Hrydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Pupukea Heights 886.4
Church College Late
Waimea
Kapaka Makai 905.1
Punaluu
Kawaihapai
Waialua
Opaeula
Kawai iki Intake
Kemoo Camp 8
Helemano Intake
Mt. Kaala
Kahana
Pri Wahiawa 820.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 800.2
Luaiualei Water Tunnel
Waianae Mauka
Waiawa
Waiahole
Makaha Kai
Waianae
Ahuimanu Loop 839.12
Luaiualei
Camp 84 807
Pearl City Terce 744.1
Coconut Island
Kaneohe Mauka
Aiea Field
Kailua Fire Sta
Hokulea
Kalihi Res Site
Kaneohe Rch
Walpahu
Haiawa Shaft
St Stephens Seminary
Ewa Plantation 741
Kapalama Nuuanu Res 5
Maunawili
Moanalua
Res 4
Res 3
Waimanalo 794
Honolulu WBAP
Pauoa Flats
Nuuanu Tunnel 2
Kamehame
Honolulu Obs. 702.2
Honolulu Substa 704
Manoa
Palolo Vly
Punchbowl Crater
Beretania Pumping Sta
Makapuu Point
Tantalus 2
Kaalaea
HSPA Exp Sta
Wallupe Res
Univ of Hawaii
Wilhelmina Rise
Lunalilo Home
Portlock Road
Waikiki
Wallupe Valy Sch
Waialae Kahala
MOLOKAI
Kaunelele Pens
Kalaupapa
Molokai AP
Kualapuu
Maunaloa 511
Puuohoku Ranch
Waikolu
Kaunakakai Mauka
Kaunakakai
Mapulehu
Kamalo Mauka
LANAI
Kanepuu 680
Mahana
Lanai City
Lanaihale
Waiakeakua
Keomalapau Harbor
Malauea 676
MAUI
Nakalele Fld 60
Honolua Fld 49
Honokohua
Field 48
Mokupea 475
Honokohau
Kahakuloa Mauka 482.3
Mahinahina
Haelaau
Waihee Valley
Kaanapali Airport
Waiehu Camp
Puu Kukui Makai
Kahoma intake
Kahului WB AP
Hamakuspoko
Wahikuli
Kukui
Iao Needle
Wailuku
Spreckelsville
Lahaina
Kauaula intake
Olowalu
Puunene
Keahua
Lupi Upper
Launiupoko Intake
Waikapu
Launiupoko Village
Olowalu Gulch
Pohakea Bridge
Ukumehame
Kihei
Twin Gates
Keawakapu Beach
Kula Sanatorium
Polipoli Spgs
Ulupalakua Ranch
KAHOOLAWE
Paia
Pauwela
Halehaku 492.2
Kailua
Waikamoi
Haleakala H E SO
Kailiili
Haleakala Ranch
Keanae
Puohokamoa 2
Waikamoi Dam
Pakea
Ukulele
Wailuaiki
Olinda
Kula Heights
Puu Paki
Honomanu Gulch
Haleakala RS
Holua Cabin 259.5
Haleakala Summit
Kaupo Ranch House
Kipahulu
Auwahi
Waiopai Rch
Hana AP
Hana
Pailolulu
Hanahuli
USCOMM-ESSA-Asheville, N.C.
Revised 2-69



HAWAII

PLATE 2

STATUTE MILES

0 5 10 15

STATION LEGEND

- Precipitation only
- Precipitation, storage
- Precipitation and Temperature
- Precipitation, Temperature and Evaporation
- Type of gage: Non-recording, Recording, Both types

Double circle combinations indicate the availability of more detailed meteorological data

All stations use 150th meridian time

USCOMM-ESSA-Asheville, N.C.
Revised 2-69

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

FEBRUARY 1970

Volume 66 No. 2

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CLIMATOLOGICAL DATA

Station		Temperature											Precipitation									
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														1.66	- 3.80	.47	10	.0	0		0	0
KANALOHULUHULU 1075		62.6	44.4	53.5		70	2+	35	27+		0	0	0	0	6.74		2.59	10	.0	0		5	3	2
KAPAA STABLES 1104	A														1.83				.0	0				0
KILAUEA FIELD 17 1135	A														3.50	- 4.68			.0	0				
KILAUEA POINT 1133		76.6	66.5	71.6		85	19+	64	27+		0	0	0	0	2.37		.67	20	.0	0		5	2	0
KOLOA 936	A														.59	- 5.65	.24	18	.0	0		2	0	0
LIHUE WB AP 1020.1	R	77.5	65.1	71.3	.6	83	19+	58	20		0	0	0	0	.89	- 4.43	.32	17	.0	0		4	0	0
MANA 1026		79.8	60.5	70.2	- .8	84	14+	51	16		0	0	0	0	1.10	- 1.71	.46	10	.0	0		3	0	0
N WAILUA DITCH 1051	A														2.83				.0	0				0
PH WAINIHA 1115															5.78	- 5.87	2.20	10	.0	0		5	3	3
PUEHU RIDGE 1040															1.82				.0	0				0
WAHIAWA 930	A														.56	- 3.70	.25	18	.0	0		0	0	0
WAIAHI LOWER 1054		76.8	56.5	66.7		84	20	51	22+		0	0	0	0	1.32		.72	14	.0	0		2	1	0
WAIMEA 947															.55	- 2.85	.30	18	.0	0		3	0	0
ISLAND				66.7											2.25				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															.71		.55	14	.0	0		2	1	0
HONOLULU WBFC 703	R	80.9	65.6	73.3	.9	86	1	62	27+		0	0	0	0	.77	- 2.53	.34	14	.0	0		3	0	0
KAHUKU 912	A	79.0M	61.0M	70.0M	- 1.6						0	0	0	0	1.44	- 3.63			.0	0				0
KANEOHE MAUKA 781		76.7	64.3	70.5	- .7	84	3	61	12+		0	0	0	0	2.03	- 5.19	1.02	14	.0	0		3	2	1
KOOLAU OAM 833															*				.0	0				
LUALUALEI 804		79.7	62.2	71.0		85	5+	56	9		0	0	0	0	*				.0	0				
MAKAPUU POINT 724		73.2	60.9	67.1		79	6+	51	4		0	0	0	0	.82	- 2.71	.35	10	.0	0		3	0	0
NUUANU RES 4 783															1.08	- 9.97	.42	13	.0	0		3	0	0
OPAEULA 870	A	75.9	57.8	66.9	.2	82	2	52	11+		0	0	0	0	2.67	- 5.74			.0	0				
PALOLO VALLEY 718															2.78	- 8.22	1.06	9	.0	0		6	2	1
PRI WAHIAWA 820.2	A	78.4	56.4	67.4		87	18	51	12+		0	0	0	0	.90				.0	0				0
PUNALUU 884	A														2.00		.81	10	.0	0			2	0
WAHIAWA OAM 863	A														1.48				.0	0				0
WAIAHOLE 837	A														3.26	- 9.86			.0	0				
WAIALUA 847	A	78.2	59.0	68.6	- 1.6	85	2	52	28+		0	0	0	0	2.61	- 2.20	1.01	15	.0	0		5	3	1
WAIKIKI 717.2		80.4	63.2	71.8		86	5+	57	22+		0	0	0	0	.57		.32	14	.0	0		2	0	0
WAIMANALO EXP FARM		78.4	62.6	70.5		83	20	56	12		0	0	0	0	2.02				.0	0				0
WAIPAHU 750	A														.40	- 3.29			.0	0			0	0
ISLAND				69.7											1.60				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														2.82	- .82			.0	0				
MAPULEHU 542															1.08	- 3.02	.89	13	.0	0		2	1	0
MAUNALOA 511	A														2.34	- .74			.0	0				
MOLOKAI AP 524		76.3	62.9	69.6		85	1	56	12		0	0	0	0	1.71		.70	15	.0	0		3	2	0
ISLAND				69.6											1.99				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	75.4M	59.5M	67.5M	2.0						0	0	0	0	1.52	- 2.21			.0	0				
ISLAND				67.5											1.52				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA B E S 434	A														4.18	- 4.94	2.54	15	.0	0		4	2	2
HALEAKALA RS 338		60.3	39.6	50.0		69	4	34	27+		0	0	0	0	2.13		1.37	15	.0	0		3	2	1
HANA AIRPORT 355		77.9M	64.4M	71.2M		81	10+	59	13		0	0	0	0	3.95		1.37	18	.0	0		6	3	2
HONOKOHUA 493	A														1.94	- 1.80			.0	0				
KAANAPALI AIRPORT		78.5M	63.2M	70.9M		83	2	59	17+		0	0	0	0	1.54				.0					0
KAHULUI WB AP 398	R	78.9	60.5	69.7	- 2.0	83	1	52	12+		0	0	0	0	1.64	- .90	.93	14	.0			2	2	0
KAILUA 446		74.4	60.2	67.3	- .8	80	16+	56	17+		0	0	0	0	4.46	- 6.01	2.13	15	.0			4	2	2
KEANAE 346	A														4.00	-15.41			.0					
KIPAHULU 258															1.91	- 7.02	.70	15	.0			3	3	0
KULA SANATORIUM 267		67.9	48.3	58.1	- 3.0	72	19+	43	8		0	0	0	0	1.90	- 1.98	.98	15	.0	0		3	1	0
LAHAINA 361		81.0	61.7	71.4		86	1	56	16		0	0	0	0	1.24	- .85	.68	14	.0			3	1	0
PAIA 406															2.14	- 1.42	1.25	15	.0			3	1	1
WAILUKU 392		77.4M	62.7M	70.1M	- 1.2	83	2	58	17+		0	0	0	0	*				.0					
ISLAND				66.1											2.59				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		77.4	61.6	69.5	.0	83	1	58	12		0	0	0	0	7.00	.08	2.83	15	.0	0		7	4	2
HAWAII VOLCNS NP HQ 54		66.3	48.4	57.4	- .5	81	7	43	5		0	0	0	0	.95	- 9.30	.19	15	.0	0		0	0	0
HILO WB AIRPORT 87	R	79.8	62.3	71.1	.5	85	20	58	14		0	0	0	0	2.56	-10.38	1.68	21	.0	0		4	1	1
HUEHUE 92.1	A														.51	- 2.20			.0	0				0
KAINALIU 73.2		77.2	58.4	67.8		82	7	54	26		0	0	0	0	1.46	- 1.93	1.21	21	.0	0		2	1	1

See Reference Notes Following Station Index
SPECIAL WEATHER SUMMARY ON PAGE 17

CLIMATOLOGICAL DATA

HAWAII
FEBRUARY 1970

Continued

Station	Temperature									No. of Days				Precipitation							No. of Days		
										Max.		Min.						Snow, Sleet					
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191	70.4M	44.9M	57.7M		76	21	37	18		0	0	0	0	.72		.36	15	.0	0		4	0	0
KEAAU 92	80.8	62.2	71.5	1.2	89	13	59	26+		0	0	0	0	.95	-12.48	.19	1	.0	0		4	0	0
KEALAKEKUA 26.2	77.3	59.7	68.5		82	14+	56	26		0	0	0	0	2.32		2.24	21	.0	0		1	1	1
KONA AIRPORT 68.3	81.0M	60.3M	70.7M		83	8+	58	13+		0	0	0	0					.0	0		0		
KUKUIHAELE HIC 199														4.89	- 2.42	2.18	15	.0	0		7	3	2
KULANI CAMP 79	61.9	40.6	51.3		70	20+	31	8		0	0	1	0	.63		.16	2	.0	0		1	0	0
PAHALA 21	79.3	58.4	68.9	.1	86	15	52	8		0	0	0	0	2.45	- 4.14	1.15	18	.0	0		4	2	1
POHAKULOA 107 A														.36				.0	0			0	0
PUAKO 95.1 A														.39		.26	15	.0	0		2	0	0
PUU WAAWAA 94.1 A														1.03	- 1.54	.90	22	.0	0		2	1	0
UMIKOA 118														6.10	- 4.45	1.93	15	.0	0		7	5	2
WAIAKEA SCD 88.2														.69		.35	2	.0	0		2	0	0
ISLAND			65.4											2.06				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 89° ON THE 13TH AT KEAAU 92, HAWAII

LOWEST TEMPERATURE: 26° ON THE 17+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 7.48 AT KUKAIAU 222, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 3 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.12 ON THE 15TH AT PAAUILO 221, HAWAII

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
							Standard of Time 150TH MERIDIAN												
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	3	0.4	8.0	23	NW	15+	72	65	55	70	6	6	3	0	1	0	16	50	6.4
HONOLULU, OAHU, WBFC	4	6.3	11.2	33	NE	23	73	70	51	66	8	1	3	0	0	0	12	72	4.9
KAHULUI, MAUI, WB AIRPORT	4	6.3	10.0	31	ENE	16	81	79	58	74	4	3	0	2	0	0	9	73	4.5
LIHUE, KAUAI, WB AIRPORT	4	5.0	11.1	26	NE	23+	74	72	60	71	8	5	4	0	0	0	17	48	6.3

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

February saw the continuation and spread of the prolonged dry spell which, in some areas, had persisted since the beginning of 1969.

In 96 percent of the rain gages in the State, rainfall was below the average for February; and in 70 percent, less than half the average. Oahu's rainfall was even more deficient: 93 percent of the stations reporting had less than half, and 62 percent less than one-quarter, of their average rainfall for February. Five stations reported their 13th consecutive month of deficient rainfall: Kaunakakai, Molokai; Maunaloa, Molokai; Kapapala Ranch, Hawaii; Manuka, Hawaii; and Moaula, Hawaii. The Lihue Weather Bureau Office's 0.89 inches was its lowest February total in 19 years of record.

The consequences of the protracted dry weather included:

1) The declaration of a drought emergency for parts of Hawaii Island -- on February 5 in the Puna district and on February 13 in the Kau district, where water restrictions were imposed and the number of families having to haul water for domestic use increased to 68 by the end of the month. (Many homes in those areas depend on roof catchment for their water supply.)

2) A major forest fire which in the course of 4 days burned over 3,000 acres in the Kipapa section of the mountains above Wahiawa, Oahu, until extinguished by the efforts of hundreds of fire fighters and by heavy showers on the early morning of the 25th. The fire was by far the largest on Oahu since records of this kind began in 1950.

Despite the lack of rain, crops and livestock were not as yet being seriously affected.

That the dry weather might be due in part to a lower moisture content of the atmosphere itself, was suggested by the low average dew point at Honolulu International Airport: 58.6° at mid-day, 3.1° below the February mean. The Airport station also recorded its highest February temperature since records there began in 1950: 86°, on the 1st of the month.

At about 3:15 p.m. on February 4, an intense dust devil, occurring under rather cloudy, calm conditions, ripped off about 300 square feet of wooden and tin roofing from an Army map storage warehouse near Fort Shafter on Oahu and carried a number of the maps to a height estimated at several hundred feet. Although no details were available concerning the dust devil, several others observed in the same area in the past few years were described as averaging no more than about 20 feet in diameter and 3 minutes in duration, during which time they travelled 200 to 300 feet.

For a number of stations with long periods of record, this was the driest February ever.

Stations With Less Rain in February 1970 than in any Previous February

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Prev. Lowest Feb. Total (Inches)	Feb. 1970 (Ins.)
KAUAI			
Intake Wainiha	57	1.89	1.46
Koloa Mauka	65	1.22	1.06
Wahiawa Mountain	69	1.50	1.25
OAHU			
Kaneohe Ranch	25	1.67	1.59
MAUI			
Kailiili	45	3.58	1.65
HAWAII			
Halemaumau	37	0.80	0.79
Hawaii Volcanoes National Park	57	0.96	0.95
Honomu Mauka	31	2.86	2.84
Kaala Iki	31	1.09	0.87
Kaumana	31	2.42	0.95
Lanihau	27	0.29	0.24
Pahoa	60	2.02	1.83

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DAILY PRECIPITATION

HAWAII
FEBRUARY 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																	
ISLAND OF KAUAI																																	
ANAHOLA 1111	A	1.66			.01			.02				.47			.01	*	*	.28	.21	.28		.18	*	*	.15		.05	.05					
BRYDES MTR STA 985	A	.84			.02		.01		*	*	T	.14		T		*	*	.33		.34	T						.05	.03	.01				
EAST LAWAI 934	A	.87			.02							.11			.06	*	*	.31		.31	.01						.02	.02	.01	*			
ELEELE 827	A	.64										.12			T	*	*	.20		.30								.02					
HALAULA 1110	A	1.43				.01		.04				.49			.02	*	*	.30	.04	.33			*	*	.19		.01	.02					
HALENANAMO 1006	A	.92										.04			.07	*	*	.39		.31			*	*	.03		.03	.05					
HIKIPO 965		.93										.23				.20				.50													
ILITILIULA INTAKE 1050	A	2.57	*	.06	.08	.03	.02	.04	*	*	.04	.13	.03		.04	*	*	1.23	.02	.38	.04	.04			.21	.02	.02	.02	.14				
INTAKE WAINIHA PC 1086	A	1.46						.03	*	*	.03	*	*	*	.32	*	*	.12	*	*	.07	*	*	*	.92								
KALIHIWAI RFS 1131	A	4.44				.04	.93	.08				.94	.02			*	*	.82		.07	.02		*	*	2.24	.01	.05	.10	.02				
KANALCHELOHULU 1075		6.78					.04	.08	.03			2.59			.07	2.31	.42			.52			.39			.08	.03					
KANEHA RESERVOIR 1092	A	3.93				.03	.01	.07	*	*	.04	1.15			.02	*	*	.40	.02	.22	.02			*	1.73			.19		*			
KAPAA STABLES 1104	A	1.83			.01							.25				*	*	.20	.10	.27				*	.95			.05					
KEALIA 1112	A	1.08				.01		.07				.31			.01	*	*	.30	.02	.31				*	.03								
KEKAHA 944		.80										.23					.21			.34				.02								
KILAUEA 1134	A	2.83	*	.24	.01	.02	.02	.11				.64				*	*	.70		.09		.02	*	*	.90		.03	.03					
KILAUEA FIELD 17 1135	A	3.50			.02	.03	.02	.16				.88				*	*	.95	.01	.09	.02	.04	*	*	1.16		.01	.14	.01				
KILAUEA POINT 1133		2.37	.03				.23				.38				.31	.24		.01	.06	.01	.04	.67					.09						
KOLO 1033		1.47										.68				.56				.23													
KOLOA 936	A	.59			.02							.04			.04			.19		.34							.01	.01	.02				
KOLOA MAUKA 994	A	1.06										.11			.04	*	*	.41		.39							.02	.07	.02				
KOLOKO RES 1137	A	3.62			.03		.02	.13	*	*	.01	.81				*	*	.92	.01	.08		.26	*	*	1.23	.01	.04	.07					
KUKUIOLA 935	A	.33			.01							.10			.05	*	*	.11		.27	T						.01	T					
LIHUE VARIETY STA		8.90	*	*	*	*	*	*	*	*	.02	.06	*	*	.07	.26	*	.01	*	.42	*	*	*	*	*	*	.01	.10	.01				
LIHUE 1020	A	.90					.03		*	*	.01	.14			.03	*	*	.24	.02	.34	.02						.01	.06					
LIHUE AP 1020.1	R	.89			T	T		T			.16	T		.02	.10	.03			.32	.07		T		T	T	.02	.03	.12	T				
MAKAHUENA POINT 940.1		.73					.06	.02			.03	.10			.01	.12	.18			.20								.03					
MAKAWELI 965	A	.76									.15			.04	.24				.33														
MANA 1026		1.10						.02				.46			.01	.22	.08	.06		.25													
MOHIHI UPR CROSS 1083	A	28.04	*	*	*	*	*	*	*	*	*	6.00			1.13	.16	.16		.32	.16				.11									
MOLOAA 1145	A	3.38										.54				*	*	.58		.15		.07	*	*	1.90			.02					
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035		1.36										.50					.43			.43													
N WAILUA DITCH 1051	A	2.83	*	.18	.04	.04	.05	.27				.15	.07		.02	*	*	.77	.14	.33	.05	.02	*	*	.20			.30	.20				
PM WAINIHA 1115		5.78						.02				2.20				1.02	.40			.05	.01	.33	1.67	.06	.02			T					
PRINCEVILLE RANCH 1117		5.32						.07				.62				.79	.20					1.16	2.38	.05				.05					
PUEHU RIDGE 1040		1.62	*	*	*	*	*	*	*	*	*	.63	*	*	*	*	.59			.40													
PUHI 1013	A	.77					.03	.01				.11			.01	*	*	.13		.35	.01							.12					
RESERVOIR 6 1004	A	.90										.04			.05	*	*	.43		.31								.05					
WAIMEA 930	A	.56			T				*	*	.01	.08				*	*	.22		.73	T					T	T						
WAIMEA MOUNTAIN 990	A	1.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.25			
WAIMI LOWER 1054		1.32			.04			.02				.04	.02			.72				.37							.01	.04	.04				
WAIMI UPPER 1052		1.74				.09	.03	.02				.12	.01		.03	.70	.05			.35	.01	.01	.17					.15	.02				
WAIAWA 943		.79										.36					.14			.39													
WAILUA KAI 1065	A	.95										.14				*	*	.12		.47			*	*	.22								
WAIMEA 947		.55										.10				.15				.30													
WEST LAWAI 931	A	.53			T						T	.09			T	*	*	.11		.31	T						T	.02					
* * *																																	
ISLAND OF OAHU																																	
AIEA FIELD 623 761	A	.53										.14				*	*	.37		.02													
BERETANIA PUMPING STA		.58			T		T	.01				.07				.40		.07	T	.03							T						
CAMP 84 807	A	1.21										.36	*	.05	*	*	*	.75		.05													
CHURCH COLLEGE LAIE		2.14					.01	.01				.58				1.30	.23							.01									
COCONUT ISLAND 840.1		.93				.02						.24	.01			.28	.25	.01		.01			.01	.11		.01	.01						
EWA PLANTATION 741		.52										.10				.30	.10			.02													
HELEMANO INTAKE 881	A	2.24	*	*	*	*	.19	*	*	*	*	*	*	.60	*	*	*	1.30	*	*	.05	*	*	*	*	*	*	*	.10				
HOKULOA 723.2	A	1.49	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.33	*	*	*	*	*	*	*	*	.16	*	*	*			
HONOLULU OBSERV 702.2		.71										.10				.55	.06			T							T						
HONOLULU WBAS 703	R	.77			T			T			.10				.32	.34	T		T	.01				T			T	T		T			
HONOLULU SUBSTA 704		.57				.02					.08				.09	.35				.03													
H S P A EXP STA 707		.82			T	.01		.01				.09				.57	.09			.04							.01						
KAHANA 883	A	3.00			*	*	*	*	*	*	.24	*	*	*	*	*	*	2.00	*	*	*	*	*	*	.38	*	*	*	*	.38			
KAHUKU 912	A	1.44				.02						.53				*	*	.83		.06													
KAILUA FIRE STA 791.3		.87			T	T				T	T	.51	T	.03			T	.04		.03				.26									
KALIHI RES SITE 777		2.54									.84	.06		.02	.52	.94	.04										.04	.04	.04				
KANEOHE MAUKA 781		2.03							.03			.63	.01			1.02	.26				.02				.01		.02	.02	.01				
KANEOHE RANCH 838	A	1.59	T	T	T		.05					.63	T	T	.60	*	*				T	T	T				T		T	T			
KAPALAMA 773	A	1.10				.07						.06				*	*	.55									.12						
KAWAIHAPAI 841	A	2.87				.01						.73				*	*	1.89		.20							.04						
KAWAI IKI INTAKE 880.2	A	22.50	*	*	*	22.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
KEMOO CAMP 8 855	A	3.62				.01	*	.01				1.02				*	*	2.42		.12	.02						.02						
KODLAU DAM 833		*	*	*	.03	.10	*	.04	*	*	*	.48	*	*	*	.25	.18	*	*	.02	*	*	*	*	*	*	.17	*	*	*			
LUALUALEI 804		*										.07				*	*	1.06		.06										*			
LUALUALEI WTR TUNNEL	A	3.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.20	*			
LUNALILO HOME 724.2		.72			.03							.67																					
MAKAHA KAI 796	A	.00																															
MAKAHA PUMP 800.2	A	1.67						.04			T	.68				.84				.11													
MAKAPUU POINT 724		.82			.01							.38				.14	.28											.04					
MANOA 712		.77		.01		.07		.04								.52											.13						
MANOA TUNNEL 2 716		2.22	.02								.72	.04			.36	.66	.02										.34	.04	.02				
MOANALUA 770		*				.03		T				.12					.90			.01					T					*			
NUUANU RES 4 783		1.08	.02								.32				.42	.28	.02																
NUUANU RESERVOIR 5 775	A	1.26			*	.13						.25	T			*		.64		T							.22	T	T	.02			
OPAEULA 870	A	2.67			.02	.10		.02				.75				*	1.66			.03	.02						.03	.04					
PALOLO VALLEY 718		2.78			.02						1.06	.10	.02		.38	.76	.10		.02	.02							.30						
PAUOA FLATS 784		3.14			.10	.04	.02	.02			.74	.06		.02	.68	.70	.06		.02	.06							.58	.02	.02				
PORTLOCK ROAD 724.4		.95		.01							.02	.52			.18	.12	.03			.03							.03	.01					
PRI WAIMANA 820.2	A	.9				.01		T				.32			*	*	*	.55		*							T						
PUNALUU 884	A	2.00	*	.01								.81	.02			.64	*	.15		.04			*	*	.07	.02		.24		*			
PUNCHBOWL CRATER 709	A	.61				.01	.01	.03				.09	.01			.49	.08			.01	.03	.01		.01			.03						
ST STEPHENS SEM 788		1.68					T	T				.58	.01			.70	.28	T		.04				T			.07	T	T	T			
TANTALUS 2 780.3		1.71			.02	.12	T	.02	.03			.35	.01			.72	*	.10			.03						.30		.01				
UNIV OF HAWAII 713	A	.92				T		.01				.11					*	.73	T	.04	.02						.01	T		*			
WAHIAWA DAM 863	A	1.48			.01	.01		.01				.52					*	.84		.06							.03						
WAIAHOLE 837	A	3.26				.12						.84			.03	*	*	1.98			.05		*	*	.06		.06	.10					
WAIALAE KAMALA 715		.80										.11	T			.35	.29	T			.02						.03	T					
WAIALUA 847	A	2.61			T	T		T				.72				.56	1.01	.15		.13							.04						
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
WAIANAE MAUKA 803	A	3.39	.03	*	*	.07	*	*	*	*	1.02	*	*	*	*	1.17	*	*	*	*	.61	*	*	*	*	.26	*	*	*	.23			
WAIAWA 836	A	2.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.10	*			
WAIKANE 885	A	2.47			*	*	*	*	*	*	.08	*	*	*	*	*	*	2.08	*	*	*	*	*	*	.22	*	*	*	*	.09			
WAIKIKI 717.2		.57						T	T			.07				.32	.14			.03			.01	T			T						
WAIMANALO EXP FARM		2.02										.55				.47	.51	T		T	.02			.45	T		.02						
WAIMEA 992	A	2.23			T	.02		.04				.80				*	*	1.30		.05							.02						
WAIPAHU 750	A	.40																															
WILMELMINA RISE 721		.88									.20	.04			.38	.12	.02		.02	.04							.06						

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII
FEBRUARY 1970

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																
ISLAND OF MOLOKAI																																
KALAUPAPA 593	A	3.04	*	*	*	*	*	*	*	*	.59	*	*	*	.86	1.34	*	*	*	*	*	*	*	*	.21	*	*	.06	*			
KAUHAKAKAI 534	A	.15															.15															
KEOPELELE PENS 551	A	3.32										1.50						1.82														
KILAUPU 534	A	2.83										1.27				*	*	1.53							.02							
MAPULEHU 547		1.06													.89	.03										.10	.04		.02			
MAUNALOA 511		2.34							*	*	.60					*	1.72						*	.02								
MOLOKAI AP 524		1.71						T				.58	T			.37	.70							.06	T							
PUUPAA RANCH 542.1		1.99		T				T			1.02	T			.26	.50	T				T		.12		T	.03		.05	T	.01		
WAIKOLU 240	A	6.76	*	*	*	*	*	*	*	*	.12	*	*	*	*	*	*	*	.22	*	*	*	*	*	*	.42	*	*	*	*			
* * *																																
ISLAND OF LANAI																																
KANEPUU 690	A	1.73													*	*	*	*	*	*	1.72											
KAUMALAPAU HARBOR 658	A	1.67										.15				*	*	1.52														
LANAI CITY 972	A	1.52		T								.14				*	*	1.34														
LANAIHALE 804	A	1.97	*	*	*	*	*	*	.01	*	*	*	*	*	.16	*	*	*	*	*	*	*	1.73	*	*	*	*	*	*	.07			
MANANA 594	A	1.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.13											
MALAUEA 676	A	.99													*	*	*		*	*	.99											
WAIAKEAKUA 885	A	1.79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.18	*	*	*	*	*	*	*	*	*	*	.61			
* * *																																
ISLAND OF MAUI																																
AHAMI-252	A	2.80															2.80															
HALEAKALA 8 E S 434	A	4.18						.02				1.06	.02			.15	2.54	.05				.08			.21		.01	.04				
HALEAKALA RANCH 432	A	3.95	*	*	*	*	*	*	*	*	*	.89	*	*	*	*	2.91	*	*	*	*	.05	*	*	.10	*	*	*	*			
HALEAKALA RS 338		2.13										.60	T			.01	1.37	.02	T		.12	.01	T		T							
HALEAKALA SUMMIT 338.4		*										.19				*	*	.14			.19											
HALIMAILE 423	A	4.10										1.08	.02			*	*	2.94						*	.02	.04						
HAMAKUAPOKO 685		2.84				T						.91	.01			.12	1.40	.01						*			.05	.05	.07			
HANA 334		3.83	*	.13								1.48	.01				*	1.46		.30				*	.30		.05		.06	.03		
HANA AIRPORT 355		3.95	.03	.10	.02	.06	T					1.20	T				.82	T		1.37	T			.15	.14		.02		.04			
HANAHALI 241		4.28			T					T		T				.46	2.54			1.10		.03		T			.10		.05			
HOLUA CABIN 259.5	A	.92	*	*	*	*	*	*	*	*	*	*	*	.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.62	*			
HONOMANU 420	A	5.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.40			
HONOKOHAU 493	A	1.94				.02						.36				*	*	1.37									.04	.02	.13	*			
HONOMANU GULCH 341	A	4.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.40	*			
KAANAPALI AIRPORT		1.54										.32			*	.94	.28									T						
KAHOKA INTAKE 374	A	4.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.40			
KAHULUI WB AP 398	R	1.64						.50	.08			.08			.04	.93	.09										T	T	T			
KAILILI 434	A	2.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.65	*			
KAILUA 446		4.44					.03					1.77					2.13	.02						.06	.01		.05	.14	.24	.01			
KAUAULA INTAKE 375	A	2.61	*	*	*	*	*	*	*	*	.06	*	*	*	*	*	*	1.86	*	*	*	*	*	*	.69	*	*	*	*	*			
KEAHUA 410		3.33										.90	.01			.28	2.10	.06														
KEANAE 346	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00	*			
KEAPAKAPU BEACH 260.2		1.34										.14				.27	.90				.03											
KIHEI 311		2.21										.24				*	*	1.97														
KIPAHULU 25F		1.91															.70			.62		.52					.07					
KULA HEIGHTS 323.2		2.63										.61				.03	1.99															
KULA SANATORIUM 267		1.90										.47				.43	.98	.02														
LAHAINA 361		1.24										.26				.68	.30															
LAUNIUPOKO INTAKE 376	A	2.79	*	*	*	*	*	*	*	*	*	*	*	*	.25	*	*	*	*	*	*	*	*	*	2.54	*	*	*	*	*			
LAUNIUPOKO VILLAGE 372	A	2.09										.24				*	1.85															
LUPI UPPER 442	A	5.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.60	*	*	*	*	*	*	*	*	*	1.00	*			
MAHINAHINA 466	A	2.85										.83				.82	1.20															
NAKALELE -FLO 60-497	A	1.41	*	*	*	*	*	*	*	*	.02	*	*	*	*	*	*	1.39								*	*	*	*				
OLINDA 332	A	3.80	*	T								1.06	.03	.01		*	*	2.41	T			.02	.04	*	*	.23							
OLOWALU 296		1.68								.08						.42	1.18															
OLOWALU GULCH 377	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00			
PAAKEA 350		4.21		.04		.05					.05	1.32	.14				1.00	.37						.12	.37		.16	.14	.40	.05			
PAIA 406		2.14			.01							.49				.30	1.25							.01		T	.01	.05	.02			
PANIEIMULU 259.2	A	6.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.30			
POHAKEA BRIDGE 307.2	A	1.62	*	*	*	*	*	*	*	*	*	.12	*	*	*	*	1.50	*	*	*	*	*	*	*	*	*	*	*	*				
POLIPOLI SPRINGS 267.7	A	2.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.62			
PUOMOKAMOA 2 343	A	12.20	*	*	*	*	*	*	*	*	3.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.60	*			
PUU KUKUI MAKAI 472	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00			
PUUMENE 356		2.08										.41				*	*	1.67														
SPRECKELSVILLE 400.2		1.93										.47				.29	1.13	.04								T						
TWIN GATES 261.3	A	2.51	*	*	*	*	*	*	*	*	.28	*	*	*	*	*	*	2.23														
UKULELE 333	A	4.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.15			
ULUMEHAME 301	A	1.74										.06				.76	.94															
ULUPALAKUA RANCH 250	A	2.44										.39				.44	*	1.70														
WAHIKULI 364	A	1.48										.38				.70	.40															
WAIEHU CAMP 484	A	1.99	*	*	*	*	*	*	*	*	*	.70	*	*	*	*	.90	.11	*	*	.05	.07	.04	.02	*	*	.02	.02	.06	*			
WAIHEE VALLEY 482	A	2.74	*	*	*	*	*	*	*	*	*	1.08	*	*	*	*	1.04	.22	*	*	*	.09	.09	.05	*	*	.06	.06	.05	*			
WAIKAPU 445	A	5.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.10	*			
WAIKAPU DAM 336	A	5.52	*	.02	.01							1.78	.16	.01	*	*	*	2.58	.02	T	.04	.02	*	*	*	.68	*	*	.20	*			
WAIMAPU 390	A	1.78	*	*	*	*	*	*	*	*	*	.28	*	*	*	*	1.43	.02	*	*	*	*	.02	*	*	*	*	*	*	*			
WAILUKU 392		*										.56	T			*	*	1.20					*	*	.02				*			
WAIPAI RANCH 256	A	3.96														*	*	3.96														
* * *																																
ISLAND OF HAWAII																																
AHUA KM1 75	A	.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30			
AMIKI 1F2.1	A	6.20	*	.55	.05							1.97	.27					2.47	*	*	*	*	*	*	.63	*	.23	.03	*	*			
EAST HONOKANE 183.2	A	5.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.80	*			
HAINA 214		7.00						.05				1.71	.19				2.63	.44						.81	.67	.06	.10	.02	.09	.03			
MAKALAU 142		2.41		.07	.02			.07				.25	.18				1.07	.25	.06						.28		.05		.09	.02			
MALAMANUI 52	A	.79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.79			
MALEPILLE 117	A	3.44	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.44			
MALEPOHAKU 111	A	.26	T														.16	T			.10		T									
MAMALI VOLCNS NP HQ 54		.95	.01	.07	T				.01	.02			.02		.13	.12	.19	.02	.04	.13				T	.05	T	.04	.03	.07			
MAWI 1G9	A	2.15	*	.04								.33				*	*	1.11	.01				*	*	.33		.12	.09	.12	*		
HILO WB AIRPORT 87	R	2.56	.19				T					.04		T		T	T	.02	.24				1.68	.09	.04	T	.12	.05	T	.05		
HOLUALOA 7	A	1.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.50			
HOLUALOA BEACH 68	A	.39														.02							.37									
MAUNAUAU 27		1.43										.02	.04	.06	.10	.04	.02	.01	.10	.03	.40	.30	.17	.05	.01	.05		.03	.04	.01		
MAUNAWILI 137		3.28		.04	.02			.08				.33	.18		.04		1.48	.29	.08	.01				.01	.41		.26	.04	.01			
MONOKANE 181.1	A	5.29	*	.45	.03							2.10				*	*	*	*	*	*	*	*	*	*	2.71	*	*	*			
MONOMU MAUKA 138		2.84		.21				.18				.18	.42		.08		.30	.25	.08	.37					.48	.05	.16	.01	.03	.04		
MONUAULA 77	A	.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80			
HUALALAI 72	A	.00																														
HUEHUE 92.1	A	.51	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.51	*			
KAALA 1K1 12	A	.87	.09	.11											.03			T		.13		.06	*	.18			.27					
KAAVALOA 29	A	1.91														*	*	.09					*	*		1.82	T					
KAIMALLU 73.2		1.46													.23	T			T				1.21	.01			.01					
KALAPANA NO 1 67.8		1.68	.64	.03		.01								T	.26	.52	T	*	*	.13	T						.01	.03	T			
KAMAOA NO 2 5	A	.99	*	*	*	*	*	*	.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.87	*	*	*	*	*	*			
KAMUELA 192.2		.97							.03			.13	.20				.32	.03							.15	.09	.02					
KAMUELA AIRPORT 191		.72							T			.10	T				.36	T	T				.03	T	.10	.13	T			T		
KAPAPALA RANCH 36	A	1.52	.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.06	*	.13	*	.05	.75	.14	*	*	*	.24	*	*			
KAPOHO LANDING 93.5	A	1.96	*	*	*	*	*	.51	*	*	*	*	*	*	.61	*	*	*	*	*	*	.69	*	*	*	*	*	*	.15	*			
KAUMANA 88.1		*		.33				.03						.02			.01			.04						.01	.05	.01	.10	*			

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII
FEBRUARY 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII VOLCANOES 193	A	7.21	*	*	*	*	*	.46	*	*	*	*	*	*	2.47	*	*	*	*	*	*	2.32	*	*	*	*	*	1.96	*			
KEAAU 92		.95	.19	.18								.07	.04	.02	.02		.11			.03				.02	.09		.11	.06				
KEALAKEKUA 26.2		2.32															.04	.04			T		2.24	T			T					
KEMENA 181.2	A	4.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.65	*			
KIELAKAA A E F S	A	3.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.14			
KIPE 89.2	A	4.70		.38				.01					.10	.01			.05		.01	3.40				.01	.07	.05	.23	.02	.07	.09			
KOHALA 179.1	A	2.69	*	.10	.01							.39				*	*	1.18					*	*	.57		.12	.17	.15	*			
KOHALA MA LILI 176	A	5.54	*	.09	.04							1.13		.01		*	*	3.48	.01				*	*	.37	.01	.08	.20	.12	*			
KOHALA MISSION 175.1		3.13			.04	.01						.49	T				1.44	.05						.04	.49	T	.22	.17	.16	.02			
KOHAKE LONEP 196	A	3.90	*	*	*	*	*	.18	*	*	*	*	*	*	1.31	*	*	*	*	*	*	1.29	*	*	*	*	*	*	1.12	*			
KONA AIRP AT 68.3		-												-			.02												-			
KONA VILLAGE 93.8		.04														.04							.04									
KAHAU 222		7.48						.04	T			1.35	.71				3.27	.52	T					.30	.97	.14	.15	.02	.01			
KAHUMOELE MTC 190		4.89						.03				1.18	.12				2.18	.20						.20	.68	.06	.18		.06			
KAHUMOELE MILL 206	A	6.28						.10				2.05	.33				*	2.70						*	.93	.01	.08	.01	.07	*			
KULANI CAMP 79		.63		.16											.02		.06	.05	.02	.03		.02		.05	.09	.03	.01	.05	.02	.02			
KULANI MAUKA 76	A	.11															.01			T			.10									
KULANI SCHOOL SITE 78	A	.50	*	*	*	*	*	*	.10	*	*	*	*	*	*	.02	*	*	*	*	*	*	.03	*	*	*	*	*	*	.35			
LAHUHAU 69.2		.24															.16						.08									
MAUNAKA 2	A	2.81														*	*	.29					*	*	2.51	.01	T			*			
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MAUNA LOA SLOPE OBS		.00																															
MIDDLE HOUSHOA 69.1	A	.51	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	*	*	*	*	.05	*	.42	*	*	*	*	*	*	*			
MIDDLE PEN 147.1	A	.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.40	*	*	*	*	*	*	*	*	*	*	*	*	*			
MAULA 18	A	1.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.09			
MOUNTAIN VIEW 91		1.96	.17	.16	.34							.03	.05	.07	.05		.05		.02	.44				.06	.30	.02	.09	.03	.02				
NAALEHU 14	A	.32	*	.11								.01	*		.01	*	*	.13	T	T		T	*	*	.01			.06				
NAPOOPOO 28	A	.49	*	.09								*	*	*	*	*	*	.02	*	*	*	*	*	*	.37							
NAULU FOREST 38.6		4.04	*	.79	T							.11	.34	.04			*	*	2.75			.02					.01	T				
NIULII 179	A	5.22	*	.10	.02							1.45	.04				*	1.07					*	*	1.96		.14	.24	.20	*			
OOKALA 223		5.87							.03	T		.80	.36		.01		3.30	.53						.17	.44	.02	.09	.11	.01				
OPIHIHALE 2 24.1		1.14														.12						.05	1.01	T								
ORCHID LAND EST 91.5	A	1.26	*	*	*	*	*	.38	*						.20	*	*	*	*	*	*	.21	*	*	*	*	*	*	.47	*			
PAAHAU 217		6.03						.04				1.45	.19				2.82	.45						.60	.38	.01	.06	.04	.03				
PAAHILO 241		8.22						.02	.10			1.52	.45	T			4.12	.52	T					.48	.73	.16	.09	.02	.01				
PAHALA 21		2.45		.02											.02					1.15			.70	.43				.13				
PAHOA 64		1.84	.19	.16		.03						.13	.08	.08	.09		.18			.44	.02			.01	.09	.02	.11	.12	.06				
PAAKU 37	A	1.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.15			
PAPAIKOU 144.1		1.92		.26	T			.07	T			.03	.12	T	.01		.04	.03	.17	.12				.00	.19	T	.15	.01	.06	.06			
PAPAIKOU MAUKA 140.1		2.42		.32				.07	T	T		.03	.17		.01		.01	.03	.09	.97					.17	.05	.24	.01	.06	.19			
PEPEEKEO MAUKA 144		1.67		.22	.01			.02				.15	.06		.02		.58	.18	.05	.02					.14	.02	.08	.01	.09	.02			
PIIHONUA 89	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00			
POHAKU A 107	A	.36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.33	*	*	*	*	.03	*	*	*	*	*	*	*	*			
PUAKO 94.1	A	.39															.26						.13										
PUU KIHE 120	A	2.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.25			
PUU LAAU 102.1	A	.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.82			
PUU LEHUA 73	A	1.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.43			
PUU MALT 113	A	1.38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.38			
PUUOKUHAU 147	A	3.83	*	.21	.06							1.30		.01		*	*	1.87	.02				*	*	.18	.01	.09	.01	.07	*			
PUU OO 82		1.35		.28									.04		T	T	.24	.09	T		.50	T	T	T	.15	.03	.02						
PUU WAAWAA 94.1	A	1.03															.13							.90									
SADDLE ROAD 1 84	A	.82	*	*	*	*	*	.32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.50	*			
SOUTH POINT CORRAL 3	A	.04	*	*	*	*	*	*	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04			
UMIKOA 118		6.10							.02			.81	.93				1.93	.97						.11	1.01	.30			.02				
UPOLU POINT USCG 159.2		1.36										.38					.59						.20				.11		.08			
WAIAKEA SCD 88.2		.69		.35				.03					.02				.06			.11					.03		.05			.04			

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	70	70	63	63	65	59	67	62	59	57	64	64	61	56	60	63	57	67	68	66	63	57	61	60	64	63	60	65				62.6
	MIN	49	52	43	50	38	49	37	35	41	46	43	41	49	53	46	45	44	44	44	45	48	48	46	47	45	42	35	39				44.4
KILAUEA POINT 1133	MAX	84	78	75	78	83	73	75	76	79	70	78	80	85	74	73	73	75	78	85	71	78	83	71	73	74	75	74	74				76.6
	MIN	70	69	72	69	67	67	65	67	66	65	64	68	65	64	65	68	65	66	65	64	68	65	67	65	66	67	64	69				66.5
LIHUE WB AP 1020.1	MAX	82	80	80	80	80	75	76	78	76	74	76	80	83	77	74	76	76	77	83	76	79	76	74	76	77	77	76	77				77.5
	MIN	66	72	72	73	62	65	69	62	62	66	63	60	68	66	61	67	65	66	63	58	62	62	69	69	67	65	61	63				65.1
MAKAHUENA POINT 940.1	MAX	85	80	81	82	83	79	84	77	81	80	82	78	84	82	84	73	77	77	80	65	84	79	84	78	78	80	81	78				80.6
	MIN	69	68	71	74	62	67	69	62	70	64	69	66	65	65	60	58	68	68	70	65	63	66	62	69	61	61	64	64				65.7
MANA 1026	MAX	84	83	81	79	79	80	81	80	82	77	77	77	81	84	74	74	76	74	82	81	81	79	82	80	83	81	81	81				79.8
	MIN	59	66	62	61	61	65	65	59	56	56	60	65	69	63	65	51	58	60	61	60	62	60	63	64	54	58	57	55				60.5
NIU RIDGE 1035	MAX	79	80	78	79	79	80	79	78	76	74	70	75	78	77	78	74	75	70	76	60	80	79	78	76	74	78	80	79				77.0
	MIN	60	60	59	57	56	60	61	60	60	54	52	55	58	58	57	52	55	54	60	59	60	60	54	54	53	55	56	61				57.1
WAIAHI LOWER 1054	MAX	81	79	80	80	80	78	75	75	77	73	74	76	78	78	76	74	73	79	78	84	78	76	71	72	74	77	76	77				76.8
	MIN	59	59	59	52	54	56	58	59	54	58	57	51	56	57	57	59	56	60	58	51	54	51	61	60	62	52	56	57				56.5
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	84	82	80	83	83	80	78	80	83	75	79	80	83	74	74	76	80	83	84	83	82	78	75	76	78	77	78	79				79.5
	MIN	59	63	65	63	56	60	57	54	56	61	56	54	64	66	56	62	57	65	59	62	59	57	62	63	62	59	55	56				59.6
HONOLULU WBFO 703	MAX	86	84	83	83	83	80	80	79	82	78	81	81	82	73	76	81	80	82	82	82	81	81	78	78	82	82	82	82				80.9
	MIN	66	70	70	68	64	64	67	62	63	65	65	62	70	68	63	66	63	68	65	66	64	64	68	67	66	68	62	63				65.6
HONOLULU SUBSTA 704	MAX	82	78	78	79	78	75	77	76	77	72	74	77	79	75	74	77	77	81	79	78	77	75	73	73	75	75	76	75				76.5
	MIN	72	73	72	69	65	65	66	63	65	66	66	64	69	67	65	67	65	68	68	68	66	66	66	66	65	67	66	65				66.8
KAHUKU 912	MAX		83	80	79	81	82			77	83	74	76	80			84	75	82	77	81			79	79	76	76	76				79.0
	MIN		60	71	70	57	52			53	56	65	55	55			62	64	62	60	59			61	65	66	67	60				61.0
KANEOHE MAUKA 781	MAX	83	80	84	77	79	82	76	74	77	79	74	75	79	78	70	72	73	80	80	81	80	76	67	73	74	74	76	74				76.7
	MIN	66	67	71	66	63	64	66	64	61	63	66	61	62	67	65	66	62	64	65	63	63	62	63	64	63	66	64	62				64.3
LUALUALEI 804	MAX	85	85	85	82	85	81	80	80	79	80	75	77	80	74	74	80	77	82	82	82	81	78	76	80	76	78	79	79				79.7
	MIN	64	63	69	67	60	60	65	58	56	60	63	58	60	68	63	62	60	60	63	62	61	61	68	59	65	64	58	64				62.2
MAKAPUU POINT 724	MAX	76	78	75	75	79	79	68	69	70	76	70	69	78	77	70	69	68	74	77	71	74	77	75	70	67	74	72	70				73.2
	MIN	64	63	69	51	63	67	59	59	58	54	62	59	63	67	60	58	56	62	69	59	60	62	60	64	56	62	60	60				60.9
OPAEULA 870	MAX	81	82	77	75	79	79	73	75	79	78	72	74	74	68	77	71	70	79	80	81	73	80	78	71	71	78	75	74				75.9
	MIN	60	62	64	64	65	55	58	52	52	55	52	54	54	60	56	58	59	57	60	58	60	58	59	60	60	58	54	55				57.8
PRI WAHIAWA 820.2	MAX	82	80	83	81	83	81	76	78	80	79	73	78	74	67	69	80	75	87	84	84	78	78	76	83	74	78	77	78				78.4
	MIN	59	63	59	61	53	53	58	51	51	53	56	51	52	58	57	52	56	56	56	59	60	62	64	58	59	57	53	53				56.4
WAIALUA 847	MAX	83	85	80	81	80	82	76	78	77	82	73	77	78	82	69	73	75	79	78	84	80	77	76	75	75	78	78	80				78.2
	MIN	62	60	61	63	57	59	65	56	53	60	55	54	57	68	62	60	56	57	60	61	62	60	66	56	61	56	52	52				59.0
WAIKIKI 717.2	MAX	86	84	81	82	86	84	80	78	82	84	71	79	84	84	77	76	77	82	85	84	85	83	71	71	78	79	79	79				80.4
	MIN	66	70	71	67	59	60	66	57	60	62	64	57	59	68	64	64	59	68	64	63	61	57	65	64	64	64	67	59				63.2
WAIMANALO EXP FARM	MAX	82	81	80	79	81	82	80	79	79	82	75	78	79	79	70	73	75	81	80	83	81	79	75	75	75	77	77	78				78.4
	MIN	62	70	69	68	58	59	60	62	58	61	65	56	57	66	62	63	65	61	63	62	59	59	65	66	63	66	63	64				62.6
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	85	79	78	78	79	79	75	75	76	78	74	77	79	77	70	71	74	78	79	79	77	75	73	73	74	73	74	77				76.3
	MIN	65	66	69	64	60	60	66	57	57	60	64	56	62	68	65	64	61	61	61	62	64	64	67	66	65	63	64	60				62.9
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX		76	74	76	76	76			74	75	73	74	75			76	73	75	79	77			76	75	77	76	74					75.4
	MIN		62	61	62	60	62			63	61	57	59	61			54	55	61	60	58			59	58	59	57	61					59.5
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	64	62	66	69	64	61	61	62	64	60	59	59	59	60	53	58	59	58	54	59	58	54	61	62	63	59	59	62				60.3
	MIN	41	44	52	45	39	39	43	40	35	37	34	37	35	40	41	38	38	40	40	41	43	42	38	42	37	37	34	38				39.6
HALEAKALA SUMMIT 338.4	MAX		52	54	55	60	57			61	52	46	60	59			58	48	48	48	48			51	51	54	56	53					53.6
	MIN		38	44	45	45	32			42	31	34	39	34			32	32	34	37	34			35	36	38	39	38					37.0
HANA AIRPORT 355	MAX	80	77	80	80	81	81	77	77	79	81	76	77	78	80	78	74	78	80	80	80	80	75	72	73	75	76	77					77.9
	MIN	69	65	68	69	66	61	64	65	64	63	61	65	59	64	61	66	68	66	63	62	62	62	64	66	64	67	64					64.4
KAANAPALI AIRPORT	MAX	82	83	82	81	81		80	78	77	79	78	78		80	75	73	76	79	79		80	79	76	76	76	77		79			78.5
	MIN	64	66	70	66	61		64	59	62	64	63	59		63	62	65	59	62	61		61	63	67	66	65	61		63			63.2
KAHULUI WB AP 398	MAX	83	81	82	82	79	76	79	77	81	74	79	80	80	74	74	77	79	80	82	79	79	77	77	78	80	78	79	82				78.9
	MIN	60	65	65	60	57	60	65	52	64	66	57	52	56	66	65	57	53	60	59	59	59	63	68	66	64	63	57	57				60.5
KAILUA 446	MAX	78	78	75	75	75	78	75	72	76	76	66	71	75	76	80	80	70	76	76	78	77	76	71	70	70	70	71	71				74.4
	MIN	61	61	65	66	58	63	60	60	60	60	59	56	56	58	58	58	56	62	61	62	61	62	61	61	60	60	60	60				60.2
KEAWAKAPU BEACH 260.2	MAX	85	85	85	85	82	83	81	82	82	85	77	81	82	83	75	75	83	82	82	82	83	81	79	80	81	80	82	83				81.6
	MIN	62	60	59	59	61	60	55	54	64	63	54	57	58	68	62	53	56	61	59	62	62	65	63	55	56	55	55	55				59.0
KULA SANATORIUM 267	MAX	70	72	70	71	69	70	70	66	68	69	65	67	68	71	64	64	67	72	72	70	70	69	65	65	64	65	63	65				67.9
	MIN	51	50	51	54	50	51	44	43	44	53	48	44	45	48	53	46	45	46	48	55	55	54	46	44	45	46	47	46				48.3

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII
FEBRUARY 1970

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	86	84	84	82	82	82	82	80	80	81	78	79	81	81	79	76	80	82	82	83	85	82	79	79	80	80	79	80				81.0
	MIN	65	66	64	62	62	63	59	59	65	64	58	59	63	65	63	56	59	61	64	64	62	63	60	58	60	60	61	60				61.7
WAILUKU 392	MAX		83	78	79	79	79			77	82	73	75	77			79	74	78	80	78			78	74	75	75	74					77.4
	MIN		63	69	66	62	60			61	63	63	58	60			61	58	59	64	64			63	66	65	64	65					62.7
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	83	81	78	79	78	81	79	76	77	82	70	75	79	80	80	66	74	80	80	80	82	80	72	69	77	76	76	76				77.4
	MIN	62	61	63	61	61	63	63	62	62	61	62	58	61	64	61	60	59	61	63	63	64	63	62	62	60	60	62	62				61.6
HAWAII VOLCNS NP HQ 54	MAX	70	65	66	67	68	72	81	65	68	67	57	63	70	69	69	57	61	63	71	72	71	71	65	60	60	63	63	63				66.3
	MIN	48	53	50	49	43	48	47	44	49	49	47	48	52	48	52	46	48	48	47	52	48	52	48	47	48	46	49	48				48.4
HILO WB AIRPORT 87	MAX	80	81	82	82	81	79	78	80	81	70	79	83	83	82	73	80	82	83	83	85	82	77	77	77	78	77	81	79				79.8
	MIN	63	62	62	62	61	59	66	62	63	62	65	63	60	58	65	64	60	61	63	62	61	63	65	63	61	63	63	63				62.3
KAINALIU 73.2	MAX	78	78	79	76	77	77	82	74	73	78	77	76	77	81	78	77	78	78	77	77	79	76	78	78	74	76	75	77				77.2
	MIN	57	61	57	58	55	60	58	55	60	58	60	55	58	60	62	60	59	60	61	60	59	60	59	58	57	54	58	57				58.4
KAMUELA 192.2	MAX	75	78	70	70	70	75	71	65	72	73	63	70	73	74	72	70	65	75	76	76	78	75	70	60	65	69	70	68				71.0
	MIN	43	46	54	47	43	46	51	52	55	56	52	43	42	45	54	52	47	45	44	47	51	45	48	52	53	52	53	52				48.9
KAMUELA AIRPORT 191	MAX		75	70	72	71	72	72	70	70	71	62	66	72	70	72	72	61	74	73	72	76	74	70	73	66	66	71	69				70.4
	MIN		45	46	44	48	44	42	44	51	51	44	39	46	38	42			37	46	45	49	48	42	48	49	44	47	44				44.9
KEAAU 92	MAX	73	79	81	81	81	82	82	78	81	80	71	83	89	85	77	77	79	87	87	85	85	85	80	81	76	79	79	79				80.8
	MIN	64	63	63	62	61	60	62	62	65	60	63	63	59	64	60	62	62	69	69	62	60	62	63	62	59	59	60	61				62.2
KEALAKEKUA 26.2	MAX	78	78	78	78	77	77	82	72	74	79	78	78	77	82	78	77	77	77	78	78	79	77	78	78	73	72	77	76				77.3
	MIN	61	62	59	59	58	60	59	57	63	60	61	57	59	62	61	61	60	60	61	61	59	60	60	59	58	56	59	59				59.7
KOHALA MISSION 175.1	MAX	81	81	77	77	77	79	78	71	76	80	72	74	78	82	80	68	72	79	83	82	81	80	71	69	73	74	73	74				76.5
	MIN	60	61	65	64	62	62	63	62	62	64	64	58	58	62	62	62	61	60	64	63	64	61	64	63	61	61	61	62				62.0
KONA AIRPORT 68.3	MAX	83	81	82	83	82	82	83	83	81	82	82		80	80	82	80	80			80	80	81		80		78	78					81.0
	MIN	59	59	60	58	58	58	59	58	58	59	58		58	63	62	64	62			61	65	64		60		63	63					60.3
KULANI CAMP 79	MAX	69	64	60	63	64	65	64	65	65	65	53	58	67	67	67	52	53	61	70	70	62	64	60	55	56	60	57	58				61.9
	MIN	41	41	35	41	35	41	36	31	35	41	41	39	43	41	47	42	40	46	41	42	43	43	43	42	42	37	43	44				40.6
MAUNA LOA SLOPE 08S	MAX	53	54	56	57	54	50	53	58	60	46	48	53	57	56	47	45	46	48	53	46	48	48	51	53	54	52	51	49				51.6
	MIN	33	37	39	38	34	37	32	38	31	31	26	32	40	35	33	29	26	30	32	30	31	33	30	29	32	33	32	30				32.6
MOUNTAIN VIEW 91	MAX	78	78	75	76	75	79	79	79	79	79	66	77	83	83	83	73	75	82	82	79	81	81	81	68	69	72	74	74				77.1
	MIN	56	56	57	56	54	54	55	55	55	55	57	59	55	55	55	55	57	56	56	56	56	56	56	55	55	56	57	56				55.8
NAALEHU 14	MAX	80	80	80	80	79	81	81	82	83	80	80	78	79	79	83	83	77	80	82	82	82	80	80	81	78	78	78	78				80.1
	MIN	66	66	65	66	64	62	62	62	58	63	62	64	66	66	64	64	63	66	66	64	64	62	62	61	64	60	62	62				63.4
OOKALA 223	MAX	80	85	80	88	77	78	77	74	76	79	69	75	78	79	79	67	73	77	78	80	80	80	72	69	75	75	75	76				76.8
	MIN	62	64	65	66	62	62	65	63	65	61	62	61	60	62	61	61	61	60	62	62	64	64	62	61	61	61	63	62				62.3
OPIHIHALE 2 24.1	MAX	77	77	76	76	75	79	71	72	79	76	74	75	81	76	81	73	77	76	75	74	75	76	75	71	72	74	72	74				75.3
	MIN	57	58	57	54	55	59	56	57	57	58	56	55	57	57	60	57	56	56	57	58	56	56	57	58	54	56	53	54				56.5
PAHALA 21	MAX	80	75	80	80	79	83	84	77	78	80	80	77	79	82	86	79	79	80	81	80	79	79	79	82	77	74	75	75				79.3
	MIN	62	60	57	62	59	59	56	52	54	60	56	55	61	60	65	60	59	60	60	60	59	61	59	54	56	56	57	57				58.4
UPOLU POINT USCG 159.2	MAX	82	84	79	78	79	81	79	78	78	82	76	76	79	83	83	75	75	80	83	82	80	81	77	75	76	78	76	81				79.1
	MIN	67	69	68	67	66	67	67	63	69	65	68	64	65	69	65	66	65	66	66	67	67	68	67	65	63	65	63	69				66.3

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.23	.12	.19	.28	.21	.22	*	.86	.38	.40	.42	.23	.27	.20	.23	.58	.39	-	.30	.21	.06	.23	.46	.34	.28	.21	.23	.30				8.138
	WIND	78	69	196	174	75	76	183	121	64	112	199	104	89	113	65	235	175	26	56	80	60	80	175	260	227	110	133	109				3444
	MAX	83	86	83	80	86	83	74	75	77	72	70	79	80	86	74	74	73	73	85	87	82	83	79	73	75	82	79	83				79.1
	MIN	59	61	65	64	61	60	59	59	58	57	57	56	56	65	56	55	57	61	64	56	56	58	58	58	59	57	58	57				58.8
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.21	.15	.18	.20	.17	.18	.22	.20	.20	.14	.24	.15	.21	.16	.11	.23	.20	.11	.18	.21	.24	.15	.30	.30	.15	.20	.19	.24				5.42
	WIND	18	13	29	20	12	22	33	22	16	40	35	22	15	30	39	56	34	15	9	21	14	20	44	64	28	31	22	26				758
	MAX	87	83	86	84	88	84	83	84	86	86	80	80	81	88	74	79	81	87	87	91	90	84	81	83	78	88	86	86				84.1
	MIN	62	63	65	65	61	59	58	57	58	57	57	57	59	67	58	56	57	60	64	65	63	60	59	58	62	62	58	62				60.3

See Reference Notes Following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI													
ALEXANDER RESV. 983		0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1111	A	0145	01	KAWAIHAU	1	22 09	159 19	116		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1		0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053		1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A	2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1		4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1		5765	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAK CO LTD
M+M 1001		6097	02	KOLOA	2	21 55	159 28	300					GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLUAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAK CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055		6893	01	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	56[illegible]	6[illegible]	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAK CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU													
APUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A	0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A			DEL MONTE CUPPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	13		8A			U OF H MARINE LAB
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9[illegible]	7A			EWA PLANTATION CO
HALAWA SHAFT 77192		0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274					WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WBFC 703	R	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707		2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6		2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7		3056	01	KOOLAUPOKO	1	21 19	157 41	1380				C	HAWAII NATIONAL GUARD
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	431[illegible]	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 08	1500	VAR				U S NAVY
LULUKU		5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	HILNOR LOM
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A	5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1		793[illegible]	03	EWA	3	21 25	157 58	24[illegible]				C	JAMES MUMEND
PORTLOCK ROAD 724.4		812[illegible]	02	HONOLULU	2	21 17	157 43	[illegible]		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A	817[illegible]	05	WAHIAWA	5	21 28	158 01	70[illegible]	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A	831[illegible]	01	KOOLAULOA	1	21 35	157 54	4[illegible]		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788		8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780		8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798	A	9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 803	A	9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836	A	9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892	A	959[illegible]	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	973[illegible]	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721		998[illegible]	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A	289[illegible]	04	MOLOKAI	1	21 12	156 59	30		8A		C	KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6		304[illegible]	01	MOLOKAI	1	21 04	156 52	60				C	W.J. CARSTEN
KAUNAKAKAI 536	A	354[illegible]	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		354[illegible]	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560					MOLOKAI RANCH, LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL & LIBBY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8[illegible]	8A			ALOHA AIRLINES
PUUDHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUUHOKU RANCH

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF MOLOKAI													
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI													
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370				C	ST. DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 52	156 55	1430					DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI													
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474		0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477		0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LKHEED SP & MSLE DIV
HALEHAKU 492.2		1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355		1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281		1148	01	HANA	1	20 41	156 01	325		7A			KUALI RANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494		1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WB AP 398	R	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	U S WEATHER BUREAU
KAILIILI 436	A	2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	2	20 39	156 08	102[illegible]				C	KAUPO RANCH
KEAHUA 410		3910	03	MAKAWAO	3	20 52	156 23	48[illegible]		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A	4091	01	HANA	1	20 50	156 10	98[illegible]					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	1[illegible]	8A	8A		S	A. L. CORELL
KIHEI 311		4489	03	WAILUKU	3	20 47	156 27	9[illegible]		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258		4634	01	HANA	1	20 39	156 04	26[illegible]		7A			KIPAHULU CATTLE COMPANY
KUKUI 380		4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475		6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO
NAKALELE -FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A	7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
PAUWELA 490	A	7857	01	MAKAWAO	1	20 55	156 19	485		7A			CLOSED02/1/70
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A	8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352		8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	874[illegible]	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	2	20 39	156 24	1900		8A			ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR			MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348		9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 392		9484	03	WAILUKU	3	20 54	156 30	200	8[illegible]	8A			ST. ANTHONYS BOYS SCH
WAIOPAI RANCH 256	A	9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII													
AHUA UMI 75	A	0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A	0190	01	N KOHALA	1	20 10	155 43	1870					KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A	0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	3[illegible]	8A		C	HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87	R	1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	U S WEATHER BUREAU
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A	1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A	2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1340		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4		2512	03	KAU	3	19 08	155 45	3700				C	RUSSELL P. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8		2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191		3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1		3510	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A	4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA AIRPORT 68.3		4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8		4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		481[illegible]	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	493[illegible]	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300		VAR		C	MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		526[illegible]	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MANUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103		8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH

STATION INDEX

(CONTINUED)

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
WAIALA 18	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
WAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
WAIAKEA 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
WAIAKU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
WAIAKUI 179	A 6809	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
WAIALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
WAIMEA 2 24.1	7106	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
WAIMEA LAND EST 91.5	A 7189	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
WAI MAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
WAIULU 221	7314	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
WAHALA 26	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
WAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
WAIAU 37	A 7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO, INC.
WAIAKOI 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			HAUNA KEA SUGAR CO.
WAIAKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
WEEKEE HAWAII 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
WILHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
WOHANUOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	0511		VAR		C	STATE DIVISION OF PARKS
WAIKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIME 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	6880					GREENWELL RANCH
PUU MALI 113	A 8513	01	HAMAKUA	1	19 55	155 26	6980					KUKAIAU RANCH CO
PUUOKUMAU 167	A 8548	01	N KOHALA	1	20 12	155 50	1800		7A			KUHALA DITCH CO LTD
PUU UO 82		02	S HILO	2	19 44	155 23	6340		6A			DON WINTERS
PUU WAAHAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHIICHI KANESHIRO
WAIKANONOULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH
CLOSED STATIONS ISLAND OF MAUI												
PAUWELA 49U	A 7857	04	MAKAWAO	1	20 55	156 19	485		7A			CLOSED 2/1/70
ISLAND OF HAWAII												
NEW STATIONS ISLAND OF OAHU												
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry

(And also on an earlier date or dates

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown

A The letter 'A' shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

B Adjusted to a full month

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING.

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable

WI Gage read weekly or irregularly only.

WW Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE- 6/5/70-890

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MARCH 1970

Volume 66 No. 3

JUL 15 1970
TECH. & AGR. DIV.
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CLIMATOLOGICAL DATA

Station		Temperature											Precipitation								
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1111	A														.66	- 5.55			.0	0		0	0	0
KANALOHULUHULU 1075		67.4	45.5	56.5		72	8	35	9		0	0	0	0	.68		.29	12	.0	0		2	0	0
KAPAA STABLES 1104	A														.85		.43	12	.0	0		2	0	0
KILAUEA FIELD 17 1135	A														2.16	- 7.72	.57	31	.0	0			1	0
KILAUEA POINT 1133		75.8	67.8	71.8		86	10	64	19		0	0	0	0	1.06		.44	18	.0	0		3	0	0
KOLOA 936	A														1.12	- 5.51	.35	19	.0	0			0	0
LIHUE W8 AP 1020.1	R	79.1	69.4	74.3	3.3	85	10	62	11		0	0	0	0	.93	- 3.63	.50	11	.0	0		1	1	0
MANA 1026		83.0	59.7	71.4	.2	87	17	55	3+		0	0	0	0	.42	- 2.23	.23	12	.0	0		2	0	0
N WAILUA DITCH 1051	A														4.11		.67	19	.0	0				0
PH WAINIHA 1115															2.00	-12.45	.56	19	.0	0		5	1	0
PUEHU RIDGE 1040															.03		.03	12	.0	0		0	0	0
WAHIAWA 930	A														.14	- 3.36	.04	19	.0	0		0	0	0
WAISHI LOWER 1054		78.2	59.3	68.8		80	11	54	4+		0	0	0	0	1.66		.49	19	.0	0		5	0	0
WAIMEA 947															.08	- 2.28	.08	2	.0	0		0	0	0
ISLAND				68.6											1.14				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU 08SERV 702.2															.10		.07	18	.0	0		0	0	0
HONOLULU W8FC 703	R	84.1	69.7	76.9	4.1	86	28+	65	11+		0	0	0	0	.07	- 2.82	.05	18	.0	0		0	0	0
KAHUKU 912	A	M	M	M		58	11				0	0	0	0	.76	- 3.98			.0	0			0	0
KANEOHE MAUKA 781		77.4M	66.4M	71.9M	.6	82	12+	63	11		0	0	0	0	1.44	- 5.82	.53	16	.0	0		5	1	0
KOOLAU OAM 833															V14.21		1.32	18	.0	0			1	1
LUALUALEI 804		82.1	66.5	74.3		85	18	60	4		0	0	0	0	V 1.23				.0	0		0	0	0
MAKAPUU POINT 724		73.3	63.2	68.3		80	12	51	13		0	0	0	0	.50	- 3.42	.18	18	.0	0		2	0	0
NUUANU RES 4 783															1.40	-10.61	.68	16	.0	0		3	1	0
OPAEULA 870	A	77.5	59.6	68.6	1.8	86	12	54	2+		0	0	0	0	1.36	- 4.85	.40	18	.0	0			0	0
PALOLO VALLEY 718															5.22	- 7.63	2.08	18	.0	0		10	3	1
PRI WAHIAWA 820.2	A	80.3	59.6	70.0		84	30+	53	3		0	0	0	0	.40				.0	0			0	0
PUNALUU 884	A														2.17		.62	5	.0	0			1	0
WAHIAWA OAM 863	A														.44		.13	18	.0	0		2	0	0
WAIAHOLE 837	A														3.53	-11.30			.0	0				
WAIALUA 847	A	80.6	59.9	70.3	.0	84	29+	54	1		0	0	0	0	.12	- 3.38	.06	16	.0	0		0	0	0
WAIKIKI 717.2		81.7	67.5	74.6		85	11	60	10		0	0	0	0	.19		.13	18	.0	0		1	0	0
WAIMANALO EXP FARM		79.3	66.4	72.9		82	29	59	12+		0	0	0	0	.70		.51	18	.0	0		1	1	0
WAIPAHU 750	A														.15	- 3.03			.0	0		0	0	0
ISLAND				72.0											1.16				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														.47	- 4.09	.15	19	.0	0		1	0	0
MAPULEHU 542															1.52	- 2.70	.37	31	.0	0		4	0	0
MAUNALOA 511	A														.16	- 3.61	.08	19	.0	0		0	0	0
MOLOKAI AP 524		78.5	66.0	72.3		83	17	60	5+		0	0	0	0	.25		.09	19	.0	0		0	0	0
ISLAND				72.3											.60				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	M	M	M							0	0	0	0	.16	- 4.17			.0	0		0	0	0
ISLAND															.16				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														4.56	- 4.65	.62	2	.0	0		13	1	0
HALEAKALA RS 338		60.7	39.8	50.3		67	10	33	26+		0	0	0	0	.61		.26	18	.0	0		2	0	0
HANA AIRPORT 355		80.0	65.9	73.0		82	30+	61	21+		0	0	0	0	2.21		.65	5	.0	0		8	1	0
HONOKOHUA 493	A														1.64	- 2.44	.51	24	.0	0			1	0
KAANAPALI AIRPORT		80.4M	64.9M	72.7M		83	17+	59	4		0	0	0	0	.14		.07	31	.0	0		0	0	0
KAHULUI W8 AP 398	R	82.4	63.1	72.8	.6	87	16	55	4		0	0	0	0	.29	- 1.93	.09	31	.0	0		0	0	0
KAILUA 446		74.5	63.4	69.0	.9	81	12	60	28+		0	0	0	0	4.29	- 7.89	.53	15	.0	0		16	1	0
KEANAE 346	A														11.50	-10.66			.0	0				
KIPAHULU 258															4.32	- 5.24	1.03	28	.0	0		9	3	1
KULA SANATORIUM 267		69.3	50.0	59.7	- 1.5	75	18	47	26+		0	0	0	0	.03	- 3.27	.03	24	.0	0		0	0	0
LAHAINA 361		82.7	63.0	72.9		85	20+	60	13		0	0	0	0	.00	- 1.93	.00		.0	0		0	0	0
PAIA 406															.61	- 3.44	.10	1	.0	0		1	0	0
WAILUKU 386		M	M	M		81	17+	61	11		0	0	0	0	V 1.88				.0	0		0	0	0
ISLAND				67.2											2.52				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		76.8	62.6	69.7	.2	82	12	60	27+		0	0	0	0	6.02	- 2.54	.93	2	.0	0		14	4	0
HAWAII VOLCNS NP HQ 54		66.0	49.2	57.6	- .3	70	12	40	10		0	0	0	0	3.37	- 8.61	.62	24	.0	0		11	1	0
HILO W8 AIRPORT 87	R	79.2	62.9	71.1	.5	83	10	59	12+		0	0	0	0	4.89	- 9.81	.59	23	.0	0		2	2	0
HUEHUE 92.1	A														.06	- 3.65			.0	0			0	0
KAINALIU 73.2		77.4	59.1	68.3		79	29+	57	4+		0	0	0	0	.98	- 4.30	.25	24	.0	0		3	0	0

See Reference Notes Following Station Index
SPECIAL WEATHER SUMMARY ON PAGE 27

CLIMATOLOGICAL DATA

Continued

Station	Temperature													Precipitation									
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAHUELA AIRPORT 191	70.1	47.1M	58.6M		73	11	39	24		0		0	0	.97		.35	31	.0			3	0	0
KEAAU 92	79.8	61.7	70.8	.5	84	13	59	12+		0		0	0	5.65	- 9.93	.70	16	.0			16	2	0
KEALAKEKUA 26.2	77.5	59.7	68.6		81	15	38	27+		0		0	0	.89		.42	23	.0			2	0	0
KONA AIRPORT 68.3	81.5	61.7	71.6		84	12+	59	28+		0		0	0	.00		.00		.0			0	0	0
KUKUIHAELE HIC 199														6.82	- 3.22	1.92	18	.0			12	5	1
KULANI CAMP 79	62.0	41.8	51.9		69	19+	34	24		0		0	0	4.90		.96	24	.0			18	2	0
PAHALA 21	79.4	59.2	69.3	.4	84	14	57	30+		0		0	0	.56	- 5.02	.14	12	.0			3	0	0
POHAKULOA 107 A														.16				.0				0	0
PUAKO 95.1 A														.07		.07	24	.0			0	0	0
PUU WAAWAA 94.1 A														.42	- 2.79	.36	24	.0			1	0	0
UMIKOA 118														4.99	- 7.74	1.07	4	.0				4	2
WAIAKEA SCO 88.2														10.50		1.66	24	.0			19	7	2
ISLAND			65.8											3.01				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 87° ON THE 23+ AT 3 STATIONS

LOWEST TEMPERATURE: 29° ON THE 25TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 14.00 AT PIIHONUA 89, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 16 STATIONS

GREATEST ONE-DAY PRECIPITATION: 2.60 ON THE 16TH AT MOUNT WAIALEALE 1047, KAUAI

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
							Standard of Time 150TH MERIDIAN												
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	5	0.3	7.0	18	NE	15+	79	73	61	74	4	3	19	2	0	0	28	46	6.4
HONOLULU, OAHU, WBFC	5	12.1	13.5	29	NE	21+	69	67	47	65	13	3	0	0	0	0	16	78	4.1
KAHULUI, MAUI, WB AIRPORT	4	11.0	12.1	28	ENE	24+	77	75	54	76	10	9	0	0	0	0	19	84	3.0
LIHUE, KAUAI, WB AIRPORT	5	11.4	12.6	23	E	20+	75	72	64	71	6	8	0	1	0	0	15	62	5.7

See Reference Notes Following Station Index

HAWAII - MARCH 1970

SPECIAL WEATHER SUMMARY

The dry weather which had affected all of the islands since early in the year, reached its peak in March. Without exception, every reporting rain gage station in the State had well under its average rainfall for the month, and nearly two-thirds of the gages had less than one-fourth their average March rainfall. The wettest part of the State was the Kohala Mountains in northeastern Hawaii Island; but even there only one station, Hawi, had as much as 84 percent of its monthly mean.

Not since March 1966 had a rainfall deficiency in the State been so widespread; but even that month was no match for March 1970 in the severity of the deficiency.

The worsening drought was most seriously felt on Hawaii Island, where:

1) On March 6 and March 18, respectively, the North Kona and South Kona Districts were declared "drought disaster areas" by the Mayor of Hawaii County -- a status already shared by the Puna and Kau Districts. To help offset the lack of rain, State agencies were hauling water to the Naalehu Reservoir from a well in Honuapo, and to approximately 70 families in Puna and 40 in North Kona -- areas largely dependent upon roof catchment for domestic water supplies. By March 19, more than $30,000 of State funds had been spent in this and other drought emergency measures.

2) The livestock death rate rose and calf prospects fell, as farms and ranches reported severe shortages of water and feed. The Statistical Reporting Service of the U. S. Department of Agriculture estimated that as of March 27, 150 head of cattle had died from lack of water and adequate pasturage and from related diseases.

3) Crops declined in growth and quality. In Kona the growth of bananas and cucumbers was retarded and in Puna papaya were reported to be smaller than usual. Some young macadamia trees were dying in South Kona.

During the last week in March, Oahu experienced its second serious forest fire in as many months, with the burning of approximately 850 acres near the Pupukea Boy Scout camp in the northwestern Koolau Mountains, an ordinarily wet locality. The Oahu Forest District placed the number of acres burned in Kipapa in the February fire (see the February 1970 Special Weather Summary) and in smaller flare-ups in March at 4,175, and the cost of fighting the fire at nearly $67,000.

The month was warm as well as dry. The average monthly temperature reached 74.3° at the Lihue, Kauai, Weather Bureau Office -- tying a similar reading in 1959 for the highest in March in 39 years of record; and 76.9° at Honolulu International Airport, the highest March reading there in 23 years of record, and 1.2° above the previous warmest March.

Five stations reported their 14th consecutive month of below-normal rainfall: Kaunakakai, Molokai; Maunaloa, Molokai; Kapapala Ranch, Hawaii; Manuka, Hawaii; and Moaula, Hawaii; and for many gages in the State this was by far the driest March ever reported.

Stations with less Rain in March 1970 than in any Previous March

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Prev. Least Mar. Total (Inches)	March 1970 (Ins.)
KAUAI			
Anahola	39	1.02	0.66
Eleele	69	0.08	0.03
Halenanaho	38	1.35	0.83
Hanalei Tunnel	40	3.40	1.10*
Iliiliula Intake	35	4.21	2.77
Puhi	34	1.47	0.87
Reservoir #6	56	1.34	1.08
Wahiawa	65	0.21	0.14
West Lawai	68	0.37	0.26
OAHU			
Aiea Fld 625	62	0.96	0.90
Kapalama	48	1.17	0.54
Kawaihapai	40	0.24	0.06
Kemoo Camp 8	45	0.47	0.28
Nuuanu Reservoir #4	65	2.26	1.40
Wahiawa Dam	56	0.77	0.44
Waialua	70	0.36	0.12
Waianae Mauka	65	1.81	0.47
Waimea	54	0.66	0.52

MOLOKAI - Continued on next page

H A W A I I - M A R C H 1 9 7 0

SPECIAL WEATHER SUMMARY

Stations with less Rain in March 1970 than in any Previous March

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Prev. Least Mar. Total (Inches)	March 1970 (Ins.)
MOLOKAI			
Maunaloa	41	0.27	0.16
MAUI			
Wailuku	68	0.20	0.10
HAWAII			
Ahua Umi	47	0.22	0.15
Holualoa	41	0.90	0.00
Huehue	66	0.13	0.06
Kaawaloa	28	1.13	0.57
Kainaliu	39	1.13	0.98
Kiolakaa A & F	40	1.04	0.08
Lanihau	27	2.09	0.37
Manuka	41	0.90	0.26
Middle Holualoa	27	0.79	0.04
Napoopoo	30	0.67	0.47

* - Driest month in entire period of record.

Percent of Gages with Indicated Percentage of Average March Rainfall in March 1970

	No. of Gages	0 - 24%	25 - 49%	50 - 99%
Kauai	43	95	5	--
Oahu	49	73	27	--
Molokai	6	83	17	--
Lanai	6	100	--	--
Maui	47	58	36	6
Hawaii	72	42	26	32
STATE	223	63	26	11

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DAILY PRECIPITATION

HAWAII
MARCH 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																	
ANAHOLA 1111	A	.66							*	*	.08	.02		.02		*	*	.12		.11	.08		*	*	.02				*	*	*	.09	.12
BRYDESWOOD STA 985	A	.63							*	*	.03	.01	T	.10		*	*	.01		.01	.20	.14	*	*	.04	.01		.02	*	*	*	.02	.04
EAST LAWAI 934	A	.82	*	.01					*	*	.08	.02		.01		*	*	.01			.26	.08	*	*	.10	T			*	*	*	.11	.14
ELEELE 927	A	.03							*	*	.01			T		*	*	T			T	.02											
HALAULA 1110	A	.60							*	*	.04		.07	.14		*	*	.09	.04		.05	.02	*	*	.02				*	*	*	.07	.06
HALENANAHO 1006	A	.83												.11		*	*	.04			.28	.03	*	*	.15				*	*	*	.14	.08
HUKIPO 945		.38		.10										.28																			
ILILIULA INTAKE 1050	A	2.77	*	.01				.04	*	*	.21			.20		*	*	.49	.14	.19	.58	.07	*	*	.15	.05		.02	*	*	*	.35	.27
INTAKE WAINIHA PC 1086	A	2.33	*	*	*	*	*	*	*	*	.07	*	*	1.14	*	*	*	*	*	*	*	.97	*	*	.15	*	*	*	*	*	*	*	*
KALIHIWAI RES 1131	A	2.11							*	*	.11	.08	.07	.06		*	*	.09	.30		.28	.07	*	*	.09	.01		.04	*	*	*	.39	.52
KANALOHULUHULU 1075		.68	.02	.19										.29						.03	.02	.04	.02								.07	
KANEHA RESERVOIR 1092	A	2.03	*	.05					*	*	.25	.07	.10	.30	.02	*	*	.10	.09		.18	.09	*	*	.15				*	*	*	.11	.52
KAPAA STABLES 1104	A	.85							*	*	.04	.02	.16	.43		*	*	.05				.03							*	*	*	.03	.09
KEALIA 1112	A	.60							*	*	.03		.06	.20		*	*	.06	.02		.04		*	*	.09				*	*	*	.05	.05
KEKAHA 944		.52												.40						.12													
KILAUEA 1134	A	1.30			.01				*	*	.06	.05	.03	.07		*	*	.16	.16		.28	.01	*	*	.01	.04		.02	*	*	*	.18	.22
KILAUEA FIELD 17 1135	A	2.16			.01				*	*	.10	.02	.05	.08	.01	*	*	.32	.37	.01	.21	.04	*	*	.09	.01		.02	*	*	*	.25	.57
KILAUEA POINT 1133		1.06							.05		.19		.02				.05		.01	.44	.02		.01				.04	.04	.01	.04	.13	.01
KOLO 1033		.13												.03					.10													
KOLOA 936	A	1.12							*	*	.11	.02		.05		*	*	.02			.35	.08	*	*	.15				*	*	*	.20	.14
KOLOA MAUKA 994	A	1.15						.07	*	*	.05			.04		*	*	.09		.09	.31	.04	*	*	.14			.07	*	*	*	.11	.14
KOLOKO RES 1137	A	2.27						.05	*	*	.06	.22		.09		*	*	.40	.39		.34		*	*	.07			.02	*	*	*	.28	.35
KUKUIULA 935	A	.38							*	*	.05	.01									.15	T	*	*	.06				*	*	*	.10	.01
LIHUE VARIETY STA		1.64						.08	*	*	.02	.40		.16		*	*	.02	.18	.06	.16		*	*	.11				.05	*	*	.15	.25
LIHUE 1020	A	.89						.03				.24		.17	.01	*	*	.01		.02	.20	.03	*	*	.07				*	*	*	.03	.08
LIHUE WB AP 1020.1	R	.93	.02					.05			.08	T	.50				T			.09	.06		.02	.04		T			T		T	.07	T
MAKAHUENA POINT 940.1		.35						.03				.13		.01							.05	.01								.09	.02	.01
MAKAWELI 965	A	.04						.01					.01								.02												
MANA 1026		.42												.23					.13	.06												
MOHIHI UPR CROSS 1083	A	.75						.05					.11							.16			.11								.16	.16
MOLOAA 1145	A	1.10										.10	.04	.07		*	*	.12		.10	.07		*	*	.13				*	*	*	.04	.43
MOUNT WAIALEALE 1047		10.76	.12	.04				.31	.16	.08			.28				1.06	2.60	.04	2.24	.35	.08	.67	.39	.28	.12	.04	.20	.20	.24	.12	.94	.20
NIU RIDGE 1035		.31												.02						.29													
N WAILUA DITCH 1051	A	4.11							*	*	.36			.40		*	*	.60	.30		.67	.20	*	*	.36	.20		.16	*	*	*	.40	.46
PH WAINIHA 1115		2.00						.07	.06	.01				.26				.02	T	.02	.56	.05	.01	.06	.02	.01		.25	.06	.04	T	.13	.37
PRINCEVILLE RANCH 1117		2.23			.02				.04	.03		.02		.07				.07	.75	.02	.63	.02						.14	.09	.04		.09	.20
PUEHU RIDGE 1040		.03												.03																			
PUHI 1013	A	.87							*	*	.06	.10		.11							.24	.14	*	*	.10				*	*	*	.04	.08
RESERVOIR 6 1004	A	1.08						.12	*	*	.04			.04		*	*	.07		.07	.18	.15	*	*	.11			.05	*	*	*	.11	.14
WAHIAWA 930	A	.14							*	*	.02					*	*	.02			.04	.03	*	*	.02				*	*	*	.01	
WAHIAWA MOUNTAIN 990	A	2.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.75
WAIAHI LOWER 1054		1.66		.01					.07	.02				.09				.23	.10		.49	.03		.07	.04	.04			.13	.05	.03	.03	.23
WAIAHI UPPER 1052		2.38							.28	.02				.17				.45	.04	.34	.27	.07	.01	.02	.09	.03			.12	.11	.05	.06	.25
WAIAWA 943		.37												.33						.04													
WAILUA KAI 1065	A	1.24							*	*	.02	.08		.66					.07		.05		*	*	.05				*	*	*	.04	.27
WAIMEA 947		.08		.06										.02																			
WEST LAWAI 931	A	.26							*	*	.05										.10	.02	*	*	.04				*	*	*	.03	.02
* * * ISLAND OF OAHU																																	
AIEA FIELD 625 761	A	.90	*	.02												*	*	.25		.23	.08	.08	*	*	.15						*	.09	*
BERETANIA PUMPING STA		.46		.02			T											*	*	.35	.01	T	.02	.02	.04						T	
CAMP 84 807	A	.21										*	*	*	*	*	*	.05	*	.11	.02	.01	*	*	.02							*	
CHURCH COLLEGE LAIE		1.08					T	.01		T		.13				.12	.42	.08					.28	.01							T	.03	
COCONUT ISLAND 840.1		.51			.01							.01						.23		.07			.03	.07				.07				.02	
EWA PLANTATION 741		.07															.02			.03			T	T	.02								
HELEMANO INTAKE 881	A	1.37	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	*	*	.75	*	*	*	.15	*	*	.10	*	*	*	.07	*
HOKULOA 725.2	A	.45	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	*	.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.37
HONOLULU OBSERV 702.2		.10															.03			.07													
HONOLULU WBFC 703	R	.07	T						T								T	T	T	.05	.01	T	.01	T	T	T		T			T	T	T
HONOLULU SUBSTA 704		.35	.01													.01		.07	.20	.03			.01								.01	.01
H S P A EXP STA 707		.70	.03				T										T	.05	.12	.38	.04		.02	.01	.02						.02	.01
KAHANA 883	A	8.50	*	*	*	*	*	*	*	*	.65	*	*	*	*	*	*	2.40	*	*	*		*	*	5.04	*	*	*	*	*	*	.41	*
KAHUKU 912	A	.76							*	*	.01	.08				*	*	.37	.02	.15			*	*	.10				*	*	*	.02	.01
KAILUA FIRE STA 791.3		.44							T	T		T	.01				T	.28	T	.08	T	.02	T	.05		T		T	T	T			T	
KALIHI RES SITE 777		3.38	.08				.04	.04	.02	.08							.58	1.40	.02	.60	.02	.04	.14	.18								.14	
KANEOHE MAUKA 781		1.44		.05			.14			*	*	.02					.15	.53	.01	.17	.09	.03	.02	.17	.02					.02	.02		
KANEOHE RANCH 838	A	1.12			T		.15					.13				*	*	.01	.40	.18	T		.10	*	.05		T	*	*	.10	*	T	T
KAPALAMA 773	A	.54														*	*	.18					*	*	.21			*	*	*	*	.15	
KAWAIHAPAI 841	A	.06																		.04	.02													
KAWAI IKI INTAKE 880.2	A	2.20	*	*	*	2.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KEMOO CAMP 8 855	A	.28						.01							.01	*	*	.10		.10	.01	.04								*	*	*	.01
KOOLAU DAM 833	V	14.21	.25	*	*	*	*	*	*	*	.04	*	*	*	*	*	.22	.28	.02	1.32	.12	.35	.05	.22	.14	*	*	.08	.26	*	.03	.13	.24
LUALUALEI 804	V	1.23	*	.03																.01													
LUALUALEI WTR TUNNEL	A	.73	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.73	*	*	*	*
LUNALILO HOME 724.2		.52															*	.15		.25			.08			.04							
MAKAHA KAI 796	A	.00																															
MAKAHA PUMP 800.2	A	.02																		.02													
MAKAPUU POINT 724		.50															.03			.18	.13	.05	.01	.05	.01							.04	
MANOA 712		2.23									.02						.12	.14	.31	.77	.09		.09	.14	.03	.11				T	.13	.28	
MANOA TUNNEL 2 716		5.00	.06	.02		.04	.10				.02	.02					.80	.98	.08	1.78	.16	.04	.28	.06	.02			.04	.02		.06	.36	.06
MOANALUA 770	V	1.45	.04														.02	.02		.16	.02	.02	.01	*	.12							T	
NUUANU RES 4 783		1.40	.04			.04					.04						.16	.68	.06	.30			.02	.04								.02	
NUUANU RESERVOIR 5 775	A	2.31	*	.13												*	*	.54	.17	.81	.05	.06	*	*	.27	.04	.02	*	*	*	*	.04	.18
OPAEULA 870	A	1.36	.01					.08	*	.03					.12	*	.08	.05	.06	.40	.12	.07	*	.15	.01			.02				.04	.12
PALOLO VALLEY 718		5.22				.32	.16					.02					.68	.74	.02	2.08	.10	.02	.12	.10	.08			.04		.02	.44	.24
PAUOA FLATS 784		6.42	.06		.02	.10	.04	.02		.02		.02	.02				1.08	1.28	.12	1.92	.22	.08	.16	.30	.10	.02	.04		.06	.02	.08	.48	.16
PORTLOCK ROAD 724.4		*															.01		.05	.07			.01	*	*	*	*	*	*	*	*	*	*
PRI WAHIAWA 820.2	A	.40														*	*	.10		*	.17	.04	*	*	.04			*	*	*	*	.05	*
PUNALUU 884	A	2.17	*	.02			.62	.04	*	*	.06	.22				*	*	.48	.10	.28	.03		*	*	.15				*	*	*	.07	.10
PUNCHBOWL CRATER 709	A	.67	.04														.02	.01	.02	.36	.05	.02	.01	.01	.05		.01			.02	.01	.02	.02
ST STEPHENS SEM 788		1.55		T			.19					.05					.26	.50		.31	.02	.01	.04	.05							T	.12
TANTALUS 2 780.5		3.70	*	.32			.02	.02	.02	.01							.38	.19	.19	1.25	.23	.14	.02	.17	.03	.17	.03	.02	*	*	*	.15	.30
UNIV OF HAWAII 713	A	.90	*	.06		.01		T								*	*	.13	.11	.25	.04	.01	*	*	.10	.01			*	*	*	.04	.14
WAHIAWA DAM 863	A	.44						.01								*	*	.08		.13	.10	.09							*	*	*	.02	.01
WAIAHOLE 837	A	3.53					.63	.05				.06				*	*	1.25	.39	.19	.11	.12	*	*	.21			.23	*	*	*	.13	.16
WAIALAE KAHALA 715		.31		T				T									.02	.05		.18	.02	T		T	T	T		T			.01	.03
WAIALUA 847	A	.12						.01										.06		.02	.02	T			.01							T	T
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAIANAE MAUKA 803	A	.47	*	*	*	.02	*	*	.01	*	*	*	*	*	*	.04	*	*	.02	*	*	.12	*	*	*	.24	*	*	*	.02	*	*	*
WAIAWA 836	A	4.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.14
WAIKANE 885	A	3.88	*	*	*	*	*	*	*	*	.76	*	*	*	*	*	*	1.36	*	*	*	*	*	*	1.24	*	*	*	*	*	*	.32	*
WAIKIKI 717.2		.19															T	.05		.13	T	T	T					.01					T
WAIMANALO EXP FARM		.70					.03										.04	.04		.51	.03	T	.02		.02				.01			T	T
WAIMEA 892	A	.52						.03								*	*	.07		.28	.04	.03	*	*	.07						T		
WAIPAHU 750	A	.15														*	*	.07		.05	.01		*	*	.01				*	*	*	.01	
WILHELMINA RISE 721		1.36	.04		.02	.02	.02											.16		.44	.04			.04	.02						.48	.08

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

HAWAII MARCH 1970

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • • ISLAND OF MOLOKAI																																	
KALAUPAPA 363	A	.74	•	.19	•	•	•	•	•	•	•	•	•	•	•	•	•	.26	•	•	.12	•	•	•	•	•	•	•	•	.17	•	.
KAUNAKAKAI 530	A	.00																															.
KEUNELELE PENS 551	A	.00															•	.02		.01	.15			•	.05		.05			.01	.09	.
KUALAPUU 534	A	.47								•	.09						.14		.06	.07	.05			.06	.05			.03	.07	.03	.08	.14	.37	.
MAPULEHU 542		1.52	.08											.03		.26																	.
MAUNALOA 511	A	.16	•	.03												•	•	.01		.02	.08											.02	.
MOLOKAI AP 524		.25	.08	T					.04	T						.09	T				.09	T				.04		T			T	.
PUUOMOKU RANCH 542.1		.78	.02	T			T	T	T				.02		.02	.05	.18	T	.03	.05	.03	T		T		T		.01	.13	T		.08	.16	.
•AIKOLU 540	A	2.55	•	.52	•	•	•	•	•	•	•	•	•	•	•	•	•	.82	•	•	•	•	•	•	.88	•	•	•	•	•	•	•	.
• • • ISLAND OF LANAI																																	
KANEPUU 690	A	.07													•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.07	.
KAUMALAPAU HARBOR 658	A	.00														•	•											•	•				.
LANAI CITY 672	A	.16														•	•	.07										•	•	•	•	.09	.
LANAIMALE 684	A	.49	•	•	•	•	•	•	.21	•	•	•	•	•	.07	•	•	•	•	•	•	•	.14	•	•	•	•	•	•	.07	•	•	.
MAHANA 694	A	.00																															.
MALAUEA 676	A	.00																															.
WAIAKEAKUA 685	A	.06																T	•	•	•	•	•	•	•	•	•	•	•	•	•	.06	.
• • • ISLAND OF MAUI																																	
AUWAHI-252	A	.13					.13																										.
HALEAKALA 8 E S 434	A	4.56	.43	.62	.04				.02	.23					.15	•	.04	.01		.48	.31	.41	.04	.04	.34	.11	.06	.06	.01	.40	.15	.31	.30	.
HALEAKALA RANCH 432	A	1.27	•	.31	•	•	•	•	•	•	•	•	•	•	.13	•	.06	•	•	.15	.08	.16	•	.08	•	•	•	•	•	•	.21	.09	.
HALEAKALA RS 338		.61	T	.05	.01		.08	T									T	T		.26	.11	.07			T	T	.02	T		T	T	.01	.
HALEAKALA SUMMIT 338.4		.06														•	•	.03		.03					T								.
HALIIMAILE 423	A	1.88	•	.45					•	•	.10				.12					.10	.15	.14	•	•	.07	.16	.05	•	•	•	•	.46	.08	.
HAMAKUAPOKO 485		1.43	.05	.02	.08	.01			.02	.02				.04	•	•	.15	.05	.01	.15	.25	.05		•	.06	.11	.09		.03	.07	.02	.10	.05	.
HANA 354		3.13	•	.13	.04		.85	.06	.04					•	•	•	.15			.22	.13	.21	.01	•	.30	.06	.04	.05	.62		•	.13	.09	.
HANA AIRPORT 355		2.21		.06	.04	.03	.65			T		T		T			.17	.20		.12	.20	.10	T	T	.18	.06	.02		.21	T	.07	.02	.08	.
HANAMULI 281		3.43				.12			.56		.13	.04	.18			.04	.48		.18	.40	.22			.10			.58	.12	.10				.18	.
HOLUA CABIN 259.5	A	.40	•	•	•	•	.25								•	•	•	•	•	.12	•	.03								T	•	•		.
HONOKOHAU 480	A	5.70	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5.70	.
HONOKOMOA 493	A	1.84	•	.11	.02													.39	.03	.19	.07	.02				.51	.02	•	•	•	•	.14	.14	.
HONOMANU GULCH 341	A	2.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2.00	.
KAANAPALI AIRPORT		.14	T	.03														T		T	.04					T						.07	.
KAHOMA INTAKE 374	A	3.76	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3.76	.
KAHULUI WB AP 398	R	.29	.05	T		T	T	.03	.02					.03		T				T	.03	T	T	T	.01	T	.01		T			.02	.09	.
KAILILI 436	A	4.41	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4.41	.
KAILUA 446		4.29	.14	.13	.02	.02	.29		.02			.02		.22	.03		.53	.23		.45	.38	.10	.03		.10	.27	.24	.11	.08	.48	.01	.19	.20	.
KAUAULA INTAKE 375	A	.71	•	.17	•	•	•	•	•	•	.23								•	•	•	•	•	•	.13	•	•	•	•	•	•	.18	•	.
KEAMUA 410		.66	.21	T						.03				.05	.07					.01		.04	T			.08	.03			.01		.09	.04	.
KEANAE 346	A	11.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	11.50	.
KEAWAKAPU BEACH 260.2		.11																														.11	.
KIHEI 311		.00																															.
KIPAHULU 258		4.32		.11			.78	.34				.03	.06					.87		.46	.18	.04			.11	.08				1.03			.23	.
KULA HEIGHTS 323.2		.00																															.
KULA SANATORIUM 267		.03					T																		.03								.
LAHAINA 361		.00																															.
LAUNIUPOKO INTAKE 376	A	1.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.50	.
LAUNIUPOKO VILLAGE 372	A	.00																															.
LUPI UPPER 442	A	6.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	6.00	.
MAHINAHINA 466	A	2.13		.60	.05													.12		.09	.19					.25				.14		.24	.45	.
NAKALELE -FLD 60-497	A	1.53	•	.08								•	•	•	•	•	•	.37	•	•	•	•	•	•	.23	•	•	•	•	•	•	.60	.25	.
OLINDA 332	A	.96	•	.12	.04	.01							.02	T	.03	•	•	.16	T	.38	.07	•	•	•	.01	.02	.01	•	•	•	•	.05	.04	.
OLOWALU 296		.00																															.
OLOWALU GULCH 377	A	2.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2.00	.
PAAKEA 350		8.88	.07	.08	.19	.11	.78		.19	.13				.04	.04		.33	1.19	.09	.81	.55	.30		.12	.41	.73	.18	.32	.06	.54	.40	.51	.70	.
PAIA 406		.61	.10		.01				.06	.04				.07	T			.01		.02	.07	.03	T		.06	.01	.08		.01	.02	T	.05	.02	.
PANILEIHULU 259.2	A	1.82	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.82	•	•	•	.
POHAKEA BRIDGE 307.2	A	.10	.01	•	•	•	•	•	•	•	•	•	•	.02	•	•	•	•	•	•	•	•	•	•	.01	•	•	•	•	•	.02	.04	.
POLIPOLI SPRINGS 267.2	A	.15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.15	.
PUOMOKAMOA 2 343	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.
PUU KUKUI MAKAI 472	A	2.40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2.40	.
PUUNENE 396		.18		.04										.03						T	T	T				.02					.04	.05	.
SPRECKELSVILLE 400.2		.52	.10	T					.09	T				.02	T						.05	.03			.04		.03				.01	.15	.
TWIN GATES 261.3	A	.00																															.
UKULELE 333	A	2.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2.00	.
UKUMEHAME 301	A	.00																															.
ULUPALAKUA RANCH 250		.66		.49																									.03	•	•	.02	.12	.
WAIHIKULI 364	A	.02		.02																													.
WAIEHU CAMP 484	A	.76	.02	•	•	•	•	•	•	•	•	•	•	•	.06	•	•	•	•	.04	.06	.02	.06	•	.09	•	.10	•	•	.05	.07	.07	.12	.
WAIHEE VALLEY 482	A	1.01	.06	•	.03	•	•	•	.04	•	•	•	•	•	.02	•	.02	•	•	.10	.10	•	.04	•	.23	•	•	•	•	.05	.04	•	.28	.
WAIKAMOI 469	A	7.20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	7.20	.
WAIKAMOI DAM 336	A	13.93	•	2.63	.46	.01	.25	T	•	•	.48	.01	.01	.01	.32	•	•	•	.35	T	1.72	.81	.86	•	•	.94	.98	.14	•	•	•	2.89	1.06	.
WAIKAPU 390	A	.24	.01	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.02	•	•	•	•	•	•	.08	.13	.
WAILUKU 386	W	1.88	•	.02										T	T						T	T	•	•	.01					•	•	.04	.03	.
WAIOPAI RANCH 256	A	.26														•	•	•	.26														.
• • • ISLAND OF HAWAII																																	
AHUA UMI 75	A	.15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.15	.
AKINI 182.1	A	10.71	•	2.08	.14	•	•	.35	•	•	1.13	.21	•	•	.34	•	•	1.51	.03	.43	1.12	.21	•	•	1.72	•	•	.71	•	•	•	.73	•	.
EAST MONOKANE 183.2	A	13.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	13.50	.
HAINA 214		6.02	.07	.92	.11	.02	.01		.18	.01					.48	.04				.71	.12	.49	.02	.11	.76	.34	.13	.02	.08	.36	.04	.11	.89	.
HAKALAU 142		5.35		.10	.33	.01	.33		.10	.13					.03		.41	.60	.22	.2•	.30	.17	.20	.25	.57	.25	.39	.09	.05	.27	.02	.04	.20	.
HALEMAUMAU 52	A	.68	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.40	•	•	•	•	•	•	•	•	.28	.
HALEPIULA 117	A	.82	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.82	.
HALEPOHAKU 111	A	.07				.02													T						.01		.03					.01	.
HAWAII VOLCNS NP HQ 54		3.37	.02	.23	.17	.02	.24	T	.17	.17	T	.01	T		.06		.10	.43	.02	.21	.33	.06	T	.12	.03	.62	.09	.02	T	.02	.07	.07	.09	.
HILO WB AIRPORT 87	R	4.89	.11	.21	T	.34	.10	.10	.16			T		.13	T	.33	.54	.18	.27	.21	.33	.19	.11	.10	.59	.15	.11	T	.36	.01	.09	.05	.12	.
HOLUALOA 70	A	.00																															.
HOLUALOA BEACH 68	A	.03									.03																						.
HONAUNAU 27		1.39	.01	.06	.03		.01	.02	.03	.01	.02	.01	.05	.10	.02	.02	.10	.02			.02	.05	.02	.04	.50						.02	.01	.22	.
HONOMINA 137		6.08		.16	.40	.02	.21		.17	.08					.06		.40	.57	.19	.47	.60	.26	.06	.20	.32	.30	.40	.12	.01	.28	.01	.27	.52	.
HONOKANE 181.1	A	9.54	•	2.34	•	•	•	.37	•	•	1.33	•	•	•	.59	•	•	.93	•	•	•	2.25	•	•	1.73	•	•	•	•	•	•	•	•	.
HONOMU MAUKA 138		11.88	.20	.34	.42	.02	.57	.01	.36	.20					.23	.08	.65	1.09	.17	1.08	.48	.57	.24	.52	.56	1.06	.47	.40	.04	.92	.22	.05	.93	.
HONUAULA 71	A	.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.50	.
HUALALAI 72	A	.04	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.04	.
HUEMUE 92.1	A	.06	•	•	•	•	•	•	•	•	•	.06	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.
KAALA 1K1 12	A	1.52					.48	.04						.12				.06								.13					.25	T	.44	.
KAAWALOA 29	A	.57			.03			T	•	•	.05	.01			.01						T		•	•	.33	.04			•	•	•	.03	.07	.
KAINALIU 73.2		.98			.07			.06			.05	.04			.02							.03	.01	.02	T	.22	.25					.13	.08	.
KALAPANA NO 1 67.8		1.40	.04	.02	.06	T	.09	T	T	.08	•	.01			.02	.02	.12	•	•	.6•	.16	T		.01	.05	.02							.05	.
KAMAOA NO 2 5	A	.56	•	•	•	.44	•	•	.05	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.07	•	•	•	.
KAMUELA 192.2		1.98		.10					.10	.14		.03			.34		.15	.08				.06	.05	.06	.04	.34	.04			.03		.05	.37	.
KAMUELA AIRPORT 191		.97		.04	.04	T			.01	.06		.04	T		.15	T	.04	T	T	.02	T	T	.01	.02	T	.19	T					T	.35	.
KAPAPALA RANCH 36	A	.83	•	•	•	•	•	•	•	.16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.67	•	•	•	.
KAPOHO LANDING 93.5	A	3.96	•	•	•	•	•	1.33	•	•	•	•	•	•	.46	•	•	•	•	•	•	1.74	•	•	•	•	•	.43	•	•	•	•	•	.
KAUMANA 88.1	W	10.78	.30	.50	.46		.84	.05	.20	.18					.15	.06	.62	1.20	.16	.4•	.22	.24	.08	.40	.52	2.2•	.07	.01		.50	.06	.07	.58	.

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

HAWAII
MARCH 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAWAINUI LOWER 193	A	11.87	*	*	*	*	*	1.85	*	*	*	*	*	*	2.55	*	*	*	*	*	*	3.12	*	*	*	*	*	4.35	*	*	*	*
KEAAU 92		5.65	.05	.26	.25	.03	.35	.03	.10	.33					.08	.04	.37	.70	.12	.32	.25	.06	.07	.18	.60	.32	.02	.21	.01	.41	.05	.01	.43
KEALAKEKUA 26.2		.89			.02			.04			.15	.02			.01	T					.07		.02	.02	.42	T						.07	.05
KEHENA 181.2	A	8.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.64
KIOLAKAA A & F 6	A	.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.08
KIPA 89.2	A	11.73	.22	.38	.49	.02	.74	.01	.79	.40					.21	.17	.65	1.00	.17	.85	.96	.10	.10	.21	.41	2.10	.26	.14		.29	.28	.20	.58
KOHALA 179.1	A	3.84	*	.40	.25	.01	.18		*	*	.17	.03			.10	*	*	.53	.02	.51	.19	.04	*	*	.53	.48	.07	.01	*	*	*	.19	.13
KOHALA MAULILI 176	A	5.67	*	.64	.17	.02	.17		*	*	.53	.12	.01		.11	*	*	.91	.14	.54	.27	.09	*	*	.28	.62	.26	.05	*	*	*	.23	.51
KOHALA MISSION 175.1		4.50	.28	.09	.20	T	.16	T	.13	.20	T	.06			.11		.68	.16	.01	.53	.39	.03	.02	.08	.46	.43	.07	.01	.05	.05		.16	.14
KOIAWE LOWER 196	A	6.93	*	*	*	*	*	.94	*	*	*	*	*	*	1.23	*	*	*	*	*	*	2.15	*	*	*	*	*	*	2.61	*	*	*	*
KONA AIRPORT 68.3		.00																															
KONA VILLAGE 93.8		.00																															
KUKAIAU 222		5.66	.18	.56	.17	.10	T		.21	.10					.36	.11			.01	.32	.12	.82	.11	.22	.20	1.07	.08	T	T	.20	T	.24	.48
KUKUIHAELE HIC 199		6.82	.26	.68	.10	.01	.03		.68	.03					.42	.05		.05		1.92	.02	.52		.14	.42	.42	.01		.05	.45		.04	.52
KUKUIHAELE MILL 206	A	3.96	*	.85	.10	.02	.02		*	*	.22				.27	*	*	.11	.02	.80	.06	.27	*	*	.22	.31	.05		*	*	*	.28	.36
KULANI CAMP 79		4.90	.12	.42	.18	.05	.36	.03	.05	.18		.01			.12		.28	.56	.03	.30	.21	.12	.05	.15	.04	.96	.10	.04	.02	.10	.10	.10	.22
KULANI MAUKA 76	A	.95	.10	.02										.04		.04	.07			.12	.10				.35				.03		.02	.06
KULANI SCHOOL SITE 78	A	4.34	*	*	*	*	*	*	.99	*	*	*	*	*	*	.33	*	*	*	*	*	*	1.58	*	*	*	*	*	*	1.44	*	*	*
LANIHAU 68.2		.37			.07	.03						.12										.15											
MANUKA 2	A	.26	*	.02	.03																*	.09	.06	.02						*	.04	
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUNA LOA SLOPE 085		.02																							.02								
MIDDLE HOLUALOA 68.1	A	.04	*	*	*	*	*	*	*	*	.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MIDDLE PEN 147.1	A	.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.12	*	*	*	*	*	*	*	*	*
MOAULA 18	A	.52	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.52
MOUNTAIN VIEW 91		8.82	.04	.20	.31		.47	.03	.12	.42		.01			.22	.09	.73	1.40	.29	.32	.55	.27	.05	.14	.47	1.15	.07	.05	.02	.42	.05	.02	.91
NAALEHU 14	A	.61			T		.45	.05								*	*	.06		T					.03		T	*	*	*	T	.02
NAPOOPOO 28	A	.47			*	*	*	*	*	*	.01								*	*	*	*	*	*	.41	*	*	*	*	*	*	.05	*
NAULU FOREST 38.6		1.42	T	.09	.06	.03	.01	.02	.03	.03	*	.01			.02	.02	.02	*	*	.65	.12	.04		.03	.06	.08	.03	T					.07
NIULII 179	A	4.31	*	.34	.29	.01	.20		*	*	.12				.05	*	*	.48		.45	.40	.08	*	*	.64	.53	.12		*	*	*	.35	.25
OOKALA 223		6.05	.18	.67	.36	.10	.01		.42	.07					.41	.24	.07		.12	.51	.13	.45	.21	.13	.33	.77	.15	.03	.02	.15	.01	.16	.35
OPIMIHALE 2 24.1		1.58	T	.37	T		.54	T	.02	.01		T		.07				T		.05	.08	.07	.01	.31	T	.02	T					.02	.01
ORCHID LAND EST 91.5	A	5.26	*	*	*	*	*	1.25	*	*	*	*	*	*	.56	*	*	*	*	*	*	2.57	*	*	*	*	.88	*	*	*	*	*	*
PAAUHAU 217		5.27	.08	.74	.11	.03			.15						.66	.04	.02			.43	.10	.34	.01	.12	.36	.19	.20	.01	.04	.32	.34	.08	.90
PAAULO 221		4.97	.11	.52	.10	.04	.01	T	.12	.05	T				.47	.02			T	.24	.10	.75	.06	.13	.26	1.04	.06	T	.01	.17	T	.25	.46
PAHALA 21		.56					.10	.03						.14				.03									.05			.10	.03	.08
PAHOA 65		7.66	.07	.38	.30	.05	.65	.09	.11	.35			.06		.15	.04	.37	.71	.04	.69	.58	.22	.08	.20	.67	.93	.12	.03		.20	.04		.53
PAKAO 37	A	2.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.02
PAPAIKOU 144.1		6.83	.05	.04	.12		.61	.02	.56	.08					.14		.44	1.10	.11	.74	.37	.12	.16	.30	.20	.49	.10	.04	T	.46	.09	.17	.32
PAPAIKOU MAUKA 140.1		12.61	.23	.55	.58	.03	.75		.75	.44					.21	.01	.54	1.33	.15	1.15	.38	.48	.16	.39	.71	1.26	.22	.33	.02	.65	.40	.19	.70
PEPEEKEO MAKAI 144		6.70	.01	.23	.10	.01	.49	.01	.05	.22	.01				.14		.82	.80	.22	.62	.28	.49	.05	.20	.20	.10	.22	.10	.01	.75	.32	.04	.21
PIIHONUA 89	A	14.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.00
POHAKULOA 107	A	.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.13	*	*	*	*	*	*	*	.03
PUAKO 95.1	A	.07		T																						.07							T
PUU KIHE 120	A	.47	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.47
PUU LAAU 102.1	A	.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.48
PUU LEHUA 73	A	.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.40
PUU MALI 113	A	.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.14
PUUOKUMAU 167	A	3.99	*	.58	.16	.01	.03	.01	*	*	.47	.07	.01		.12	*	*	.58	.07	.34	.45	.08	*	*	.32	.37	.27	.05	*	*	*	*	*
PUU OO 82		4.35	.11	.35	.07		.41	T	.12						.01	.34	.87		.26		.04	.01		.03	.19	.67	.04	.09	T	.17	.11	.37	.09
PUU WAAWAA 94.1	A	.42																								.36							.06
SADDLE ROAD 1 84	A	6.00	*	*	*	*	*	.65	*	*	*	*	*	*	1.35	*	*	*	*	*	*	4.00	*	*	*	*	*	*	*	*	*	*	*
SOUTH POINT CORRAL 3	A	.18	*	*	*	*	*	*	.06	*	*	*	*	*	*	*	*	.07	*	*	*	*	*	*	*	*	*	.05	*	*	*	*	*
UMIKOA 118		4.99		.10		1.07	.03								.38				.01		.52	.02	*	.45	.07	1.04	*	.13	*	*	.26	.04	.87
UPOLU POINT USCG 159.2		2.36	.21	.03	.05		.04		T	.23		.06			.13	.01	.15	.29		.13	.30			.04	.20	.19	T	.03				.13	.14
WAIAKEA SCO 88.2		10.50	.04	.28	.40	.67		T	.41	.44					.19	.01	.52	1.40	.08	.48	.41	.15		.47	.60	1.66	.34	.08		.62	.26	.10	.89

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	62	66	68	66	68	67	69	72	70	69	62	67	69	67	68	70	70	66	64	66	65	61	66	67	69	69	70	70	69	70	66	67.4
	MIN	41	42	41	39	42	44	48	51	35	43	45	42	42	36	40	43	46	48	46	51	54	56	46	50	45	48	51	47	48	50	52	45.5
KILAUEA POINT 1133	MAX	76	76	75	76	78	76	76	76	76	86	80	76	75	75	75	76	75	74	75	73	74	75	73	74	75	75	76	75	76	76	76	75.8
	MIN	68	69	68	68	70	69	69	70	66	67	68	69	68	69	67	69	66	68	64	67	69	68	67	67	69	66	69	68	66	66	68	67.8
LIHUE WB AP 1020.1	MAX	78	78	78	78	78	79	80	80	80	85	80	77	77	78	79	80	80	79	79	79	77	77	78	79	79	79	80	80	80	80	80	79.1
	MIN	70	70	70	64	65	70	71	72	69	66	62	64	69	70	72	73	73	69	70	71	70	67	71	71	70	71	69	72	71	68	70	69.4
MAKAHUENA POINT 940.1	MAX	78	80	80	79	82	83	83	82	81	85	86	74	84	84	84	79	83	81	82	81	79	80	80	79	79	80	80	83	80	79	80	81.0
	MIN	64	69	71	69	64	71	73	72	71	72	69	65	68	64	70	73	73	65	71	71	68	69	70	64	70	63	72	71	69	68	68	68.9
MANA 1026	MAX	81	82	82	82	80	83	82	83	83	83	86	81	81	81	81	82	87	83	84	86	81	84	83	83	84	84	84	85	83	84	85	83.0
	MIN	56	55	55	56	60	60	60	60	60	64	60	60	58	60	60	58	61	60	59	58	56	59	58	58	56	59	69	67	62	65	61	59.7
NIU RIDGE 1035	MAX	78	79	79	78	80	79	80	81	80	80	81	75	78	79	80	80	81	80	81	82	82	81	80	78	80	79	81	81	80	80	81	79.8
	MIN	55	56	57	58	59	56	57	57	58	57	60	57	55	57	56	58	60	57	60	60	60	60	58	57	58	56	57	58	57	58	58	57.6
WAIAHI LOWER 1054	MAX	78	78	78	78	79	79	78	79	78	79	80	79	79	78	79	77	79	78	76	77	79	78	76	77	77	78	78	79	79	78	79	78.2
	MIN	54	56	54	54	55	62	64	64	60	60	55	55	58	58	59	62	64	64	62	62	60	61	60	59	58	57	59	60	61	60	61	59.3
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	80	80	79	80	79	81	80	81	80	81	83	81	80	81	83	81	83	80	81	80	78	79	80	80	81	81	81	84	82	82	82	80.8
	MIN	61	59	60	59	59	60	63	65	61	61	59	64	61	59	63	67	64	66	67	68	64	64	61	64	62	62	62	61	62	62	64	62.4
HONOLULU WBFC 703	MAX	84	83	83	81	85	85	85	85	84	83	82	84	83	84	86	85	86	84	84	84	83	83	83	84	84	85	84	86	85	85	84	84.1
	MIN	68	66	68	66	65	68	72	73	70	67	65	67	70	70	71	73	72	71	73	71	71	72	70	71	71	71	70	70	68	71	71	69.7
HONOLULU SUBSTA 704	MAX	75	76	78	78	78	79	77	78	78	79	78	78	77	78	80	80	80	77	78	77	76	78	77	78	78	78	78	79	78	78	76	77.8
	MIN	68	68	70	70	67	69	69	70	68	66	66	69	68	69	70	71	69	68	70	69	69	70	68	70	70	69	70	69	69	68	68	68.8
KAHUKU 912	MAX		78	78	78	79	79			79	78	80	80	78			80	80	80	78	78			78	78	78	78			80	79	
	MIN		66	68	68	68	68			69	66	58	59	68			66	71	67	68	70			68	69	69	69			69	70	
KANEOHE MAUKA 781	MAX	75	75	77	76	76	71	78			82	78	82	77	77	77	78	78	78	78	77	78	75	78	76	78	78	78	78	78	79	78	77.4
	MIN	66	66	67	66	65	67	65			67	63	64	68	68	67	68	71	64	66	67	67	66	67	67	66	67	65	68	66	66	67	66.4
LUALUALEI 804	MAX	80	80	81	81	81	80	82	81	82	82	82	82	81	84	81	83	83	85	81	83	82	80	82	81	81	83	84	84	84	84	84	82.1
	MIN	69	62	63	60	61	61	71	72	68	62	61	63	66	63	66	62	69	69	69	68	70	71	69	70	70	68	65	70	69	66	69	66.5
MAKAPUU POINT 724	MAX	69	72	73	73	70	76	75	74	74	70	78	80	73	72	76	75	77	70	74	74	69	70	70	72	73	70	75	75	76	78	70	73.3
	MIN	59	61	67	68	60	57	68	67	64	60	63	69	51	62	62	62	66	60	62	68	59	61	60	64	63	63	63	68	68	68	65	63.2
OPAEULA 870	MAX	77	76	77	77	78	81	75	79	77	77	79	86	72	78	77	78	79	81	75	75	73	74	74	77	75	80	76	75	82	85	78	77.5
	MIN	54	54	56	55	55	57	62	60	63	63	57	57	60	62	58	64	63	63	63	63	60	62	58	60	59	59	60	59	60	60	61	59.6
PRT WAHIAWA 820.2	MAX	78	80	80	79	81	82	79	79	81	80	83	82	80	79	80	80	82	77	83	80	75	78	79	78	79	82	81	84	82	84	82	80.3
	MIN	61	59	53	57	57	57	61	66	60	58	55	56	60	57	60	57	62	62	62	64	63	62	60	60	60	60	60	59	60	59	61	59.6
WAIALUA 847	MAX	78	78	81	81	79	82	80	79	81	83	81	82	78	82	80	82	83	84	80	80	78	76	79	80	80	81	81	81	84	83	82	80.6
	MIN	54	59	56	56	56	57	60	62	61	60	60	62	58	59	57	59	61	63	66	68	62	64	61	60	59	61	62	59	58	58	59	59.9
WAIKIKI 717.2	MAX	80	81	80	80	83	82	82	81	82	84	85	84	83	79	81	83	81	83	81	83	80	82	80	81	80	81	82	81	83	82	82	81.7
	MIN	62	65	68	66	63	68	70	69	69	60	67	68	64	69	69	70	70	68	69	68	69	68	68	69	68	68	69	69	67	66	69	67.5
WAIMANALO EXP FARM	MAX	78	78	78	79	78	79	78	78	79	78	80	81	80	79	79	80	80	81	79	79	79	78	79	79	79	80	80	81	82	81	80	79.3
	MIN	66	64	67	68	66	68	68	66	68	66	59	59	66	68	66	68	70	67	67	68	65	67	66	68	68	68	66	66	68	67	65	66.4
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	77	77	76	77	79	77	77	77	79	82	78	81	77	79	77	81	83	82	78	78	77	76	77	78	77	79	79	78	79	80	80	78.5
	MIN	60	65	67	62	60	61	64	69	69	62	62	64	67	64	68	67	69	69	67	67	68	69	69	67	68	66	66	67	69	66	69	66.0
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX		77	74	75	75	74			76	77	76	78	78			77	78	77					78		72							
	MIN		63	58	57	59	60			58	63	62	60	61			64	60	62					62		59							
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	56	58	58	62	56	59	65	65	66	67	61	62	64	63	59	61	60	58	65	63	65	63	59	55	61	56	58	56	60	61	60	60.7
	MIN	36	36	39	40	34	40	42	47	50	43	38	41	44	41	38	47	38	39	44	41	45	43	35	33	35	33	37	35	39	39	42	39.8
HALEAKALA SUMMIT 338.4	MAX	46	53	48	55	57	48	50	50	56	55	58	58	52	53	50	49	51	51	53	52	46	54	55	48	50	50			55	56	54	52.2
	MIN	32	34	36	39	32	39	38	37	40	42	38	36	36	38	37	34	35	37	36	35	37	36	36	37	37	39			38	38	35	36.7
HANA AIRPORT 355	MAX	80	80	78	78	77	80	81	80	80	80	82	82	80	80	80	80	80	81	80	82	79	80	80	79	79	79	80	80	80	82	81	80.0
	MIN	66	67	67	67	65	61	68	69	69	69	62	62	68	68	68	67	70	68	66	65	61	66	68	62	68	62	63	65	65	66	66	65.9
KAHNAPALI AIRPORT	MAX	79	76	79	79	82	80	79	81	83	80	81	83	80	81	81	83	83	81	81	80	79		80	75		82	81	80		82	79	80.4
	MIN	65	61	62	59	62	68	63	68	65	63	63	63	65	62	65	65	69	68	67	70	68		66	67		65	63	68		62	66	64.9
KAHULUI WB AP 398	MAX	80	81	81	81	83	82	82	85	85	81	83	81	80	83	85	87	86	83	83	81	82	83	80	83	81	82	83	80	82	83	82	82.4
	MIN	65	60	65	55	59	66	64	59	56	59	58	60	69	60	62	61	58	67	68	68	66	69	65	66	63	63	59	66	68	66	65	63.1
KAILUA 446	MAX	74	74	74	74	74	75	75	75	74	75	77	81	73	74	73	75	75	75	75	75	75	75	74	70	74	74	75	74	74	75	74	74.5
	MIN	61	61	64	63	63	62	64	64	64	63	64	63	65	65	65	66	65	64	65	65	64	64	63	63	63	60	61	60	64	63	63	63.4
KEAWAKAPU BEACH 260.2	MAX	80	82	85	84	82	84	84	85	85	84	87	85	82	83	81	85	84	84	86	86	86	85	87	80	86	85	84	85	82	82	81	83.9
	MIN	55	57	57	56	59	57	60	57	59	60	58	59	57	57	60	62	59	61	58	60	59	59	58	58	58	57	60	59	60	59	60	58.5
KULA SANATORIUM 267	MAX	67	68	68	65	69	68	66	70	69	70	69	70	72	70	68	72	73	75	72	70	70	69	70	69	68	68	69	67	70	68	68	69.3
	MIN	47	47	47	48	51	47	48	52	53	53	51	52	52	50	51	54	51	52	51	51	47	48	49	49	49	47	48	51	52	50	51	50.0

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DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	80	81	82	81	84	81	82	85	85	81	82	83	84	82	84	84	83	83	84	85	83	81	82	82	83	83	82	83	82	83	83	82.7
	MIN	63	62	62	62	63	62	63	63	62	62	62	63	60	62	64	65	64	66	65	63	62	62	64	65	64	62	63	63	63	64	64	63.0
WAILUKU 386	MAX		78	76	76	77	78			78	79	78	81	77			79	81	80	78	79			77	74	78	77			78	78	
	MIN		65	67	62	63	66			67	63	61	63	68			67	68	68	67	67			66	67	65	67			67	66	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	74	75	77	76	74	78	78	75	76	78	80	82	80	74	76	75	80	80	78	68	78	79	78	76	77	76	78	75	75	77	79	76.8
	MIN	62	61	63	60	62	64	64	66	63	61	63	61	64	64	65	65	65	64	64	64	63	61	61	63	60	60	60	62	61	61	63	62.6
HAWAII VOLCNS NP HO 54	MAX	64	66	63	65	65	66	69	66	69	67	67	70	69	69	68	69	67	67	66	63	64	65	62	64	63	65	65	67	66	61	68	66.0
	MIN	48	48	50	47	51	48	49	50	49	40	47	48	50	50	50	53	51	53	51	54	43	50	49	52	48	48	48	52	48	49	52	49.2
HILO WB AIRPORT 87	MAX	81	75	79	74	80	81	76	81	81	83	81	81	60	76	81	82	82	80	80	79	79	78	75	80	77	80	76	80	80	79	79	79.2
	MIN	59	61	63	61	64	63	61	62	61	65	61	59	66	64	64	65	61	65	65	63	64	64	64	63	63	63	62	63	61	61	68	62.9
KAINALIU 73.2	MAX	79	78	77	77	77	76	79	79	77	79	76	79	77	78	79	78	79	79	78	79	73	77	76	76	78	77	77	78	79	76	73	77.4
	MIN	58	57	57	57	58	60	59	59	59	59	59	58	60	63	60	60	61	59	60	60	59	61	58	59	59	58	58	59	59	59	59	59.1
KAMUELA 192.2	MAX	69	70	69	70	74	74	73	68	70	70	76	72	69	68	66	69	72	71	67	67	67	65	67	68	68	68	70	69	72	70	71	69.6
	MIN	53	52	53	50	53	53	53	55	54	48	47	50	56	56	55	50	53	57	56	54	54	55	55	57	54	54	55	54	56	56	56	53.7
KAMUELA AIRPORT 191	MAX	69	71	67	69	72	72	70	68	70	70	73	72	71	70	69	70	70	72	68	70	70	69	68	69	69	69	71	70	72	72	72	70.1
	MIN	51	57	47	44	47	47	45	52	44	44	43	48		50	48	45	44	42			56		42	39	46	51	46	42	53	48	50	47.1
KEAAU 92	MAX	82	80	78	80	74	80	81	76	80	81	83	83	84	81	76	81	81	82	80	80	79	80	79	76	79	79	80	79	78	80	81	79.8
	MIN	61	61	61	59	61	63	62	62	62	61	60	59	60	63	63	65	63	62	64	64	61	63	62	62	61	61	61	63	61	61	61	61.7
KEALAKEKUA 26.2	MAX	73	76	77	77	77	75	78	79	78	71	77	79	79	78	81	79	79	79	79	78	76	78	78	77	79	78	77	79	79	78	74	77.5
	MIN	59	59	59	59	59	60	60	58	60	60	60	59	60	63	60	60	62	60	60	61	60	61	58	61	60	58	58	59	59	59	60	59.7
KOHALA MISSION 175.1	MAX	72	73	74	76	74	73	71	72	76	76	82	80	78	76	72	75	78	78	76	76	76	75	76	74	75	75	77	76	73	78	78	75.7
	MIN	61	61	64	60	60	63	66	66	66	62	63	64	65	68	68	66	66	65	64	63	63	64	63	64	63	64	64	65	64	64	64	64.0
KONA AIRPORT 68.3	MAX	83	81	80	81	80	78	82	83	81	78	84	84	81	81	83	83	83	82	81	81	80	83	83	82	82	80	82	80	82	82	81	81.5
	MIN	63	59	64	64	59	69	61	62	61	63	60	60	63	65	61	61	61	62	62	61	63	61	61	60	64	60	61	59	60	64	60	61.7
KULANI CAMP 79	MAX	59	59	58	60	58	60	64	62	65	69	67	65	65	64	62	66	62	62	69	61	60	60	56	59	55	58	60	62	61	66	67	62.0
	MIN	42	43	45	40	46	40	40	42	48	38	39	38	44	42	42	42	43	36	46	42	42	42	42	34	46	44	38	38	41	42	48	41.8
MAUNA LOA SLOPE 08S	MAX	46	48	53	51	49	52	52	53	57	53	50	50	52	52	54	51	54	52	54	51	48	52	51	50	48	49	51	50	54	52	55	51.4
	MIN	30	30	33	34	32	31	32	35	36	37	31	30	31	33	34	36	33	34	35	32	32	34	31	31	29	31	30	30	34	36	37	32.7
MOUNTAIN VIEW 91	MAX	74	74	70	74	69	75	76	76	76	76	78	79	78	76	76	76	76	77	74	73	74	74	74	69	72	74	75	75	75	75	77	74.7
	MIN	56	56	57	54	57	58	56	56	56	57	55	52	52	58	58	58	58	59	60	58	57	57	57	59	56	56	53	53	53	53	56	56.2
NAALEHU 14	MAX	79	79	77	79	76	80	80	81	81	79	81	81	80	80	82	82	80	80	80	80	80	80	81	79	75	79	79	79	81	81	81	79.7
	MIN	63	63	62	64	64	62	62	64	64	66	63	62	64	64	66	66	66	65	67	66	66	66	62	65	62	62	62	62	61	61	65	63.8
OOKALA 223	MAX	77	77	74	76	75	78	77	75	77	76	78	81	79	77	78	78	78	78	77	76	77	79	76	76	76	75	78	78	76	79	77	77.1
	MIN	62	62	62	64	64	65	65	65	66	64	65	64	64	64	64	64	64	65	64	64	62	62	62	63	63	63	63	64	63	65	62	63.6
OPIHIHALE 2 24.1	MAX	77	72	75	77	77	76	74	77	72	75	74	73	76	75	77	77	78	74	78	78	76	76	72	78	75	73	76	79	74	70	74	75.3
	MIN	54	55	55	57	57	56	55	55	56	57	57	56	59	57	57	57	58	58	58	58	58	57	57	58	56	54	55	57	57	60	62	56.9
PAHALA 21	MAX	79	77	76	79	78	74	80	80	80	78	80	81	80	84	83	81	80	80	81	79	80	78	79	78	76	78	80	80	80	80	81	79.4
	MIN	57	57	58	58	59	59	58	58	58	60	59	58	59	58	60	62	61	63	62	60	58	60	59	59	57	58	59	63	63	57	58	59.2
UPOLU POINT USCG 159.2	MAX	78	77	81	79	77	80	80	79	80	83	82	83	81	78	78	78	80	80	79	80	78	78	79	78	79	78	80	79	80	80	80	79.4
	MIN	67	64	65	65	65	69	67	68	68	68	68	65	68	68	67	68	68	67	62	64	66	66	64	64	68	66	66	67	66	65	66	66.3

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.33	.31	.32	.35	.25	.26	.45	.36	.36	.25	.30	.21	.38	.37	.35	.34	.19	.37	.20	.36	.49	.22	.31	.43	.28	.46	.29	.32	.36	.42	.26	10.15
	WIND	150	176	163	134	76	159	203	232	203	98	74	70	175	189	187	200	183	212	245	298	247	213	210	225	243	207	200	205	174	182	185	5718
	MAX	84	82	83	84	83	82	84	82	84	87	87	77	81	83	84	81	87	86	81	83	81	80	79	78	83	83	85	84	86	85	85	83.0
	MIN	60	61	62	60	60	62	64	64	63	63	60	58	60	60	61	65	67	69	63	62	62	62	62	61	61	62	63	63	64	64	63	62.3
* * * ISLAND OF OAHU																																	
HONOLULU WBSERV 702.2	EVAP	.15	.21	.26	.26	.24	.22	.25	.29	.25	.21	.15	.23	.27	.25	.21	.22	.30	.22	.30	.37	.30	.30	.20	.25	.30	.30	.24	.20	.27	.30	.25	7.77
	WIND	22	29	26	23	12	20	29	36	30	20	20	14	34	28	21	28	20	28	45	59	50	35	32	32	40	27	23	20	21	25	24	873
	MAX	82	82	87	89	90	88	87	88	89	88	81	90	89	87	87	90	91	91	88	88	87	85	85	85	87	87	83	83	90	90	87	87.1
	MIN	62	60	59	61	61	63	63	64	63	63	60	62	62	60	61	66	66	67	64	63	63	62	61	62	62	62	62	62	62	63	62	62.4

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 993	0140	02	KOLOA	2	21 57	159 32	1010				C	MCBRYDE SUGAR CO.
ANAHOLA 1111	A 0145	01	KAWAIHAU	1	22 09	159 19	116		7A			LIHUE PLANTATION CO
BAYDEN WOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
E W 3 RESERVOIR 1094.1	0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 11[illegible]	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIU A INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA RC 1086	A 2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOL	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 22	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 939	A 4950	02	KOLOA	2	21 54	159 30	100		6A			HC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
[illegible] 1001	6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 26	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	6893	01	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1550		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A 8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	555	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A 0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A		C	EWA PLANTATION CO
HALAWA SHAFT 77192	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WBFC 703	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800				C	WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	KOOLAUPOKO	1	21 19	157 41	1380				C	CLOSED 2/11/70
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3720	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A 3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 55	1160		8A			C & F OFFICER HEDC
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A 5650	04	WAIANAE	4	21 29	158 08	1500		VAR			U S NAVY
LULUKU	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LOH
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796	A 5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240				C	CLARENCE LEE
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWI I 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 77	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 49	1640		MID			BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1	7933	03	EWA	3	21 25	157 58	240				C	CLOSED 3/16/70
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	400				C	JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	873	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8730	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 778	A 9231	04	WAIANAE	4	21 27	158 11	10		8A			CAPITAL INVEST CO
WAIANAE MAUKA 803	A 9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 835	A 9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A 9341	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHULE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	950	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892	A 9591	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 75	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6	3 46	01	MOLOKAI	1	21 04	156 52	60				C	W.J. CARSTEN
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			HULUKAI RANCH LTD
KAUNAKAKAI MAUKA 535.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	HOLOKAI GENERAL HOSP.
K[illegible] PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560					HOLUKAI RANCH, LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL HUNTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 531	A 819	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL & LIRBY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	RUUUHUKU RANCH
ISLAND OF MOLOKAI												
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650				C	OOLE COMPANY
KAUHALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370				C	ST. OIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430					DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
MAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LKHEEO SP & MSLE OIV
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLO 49 494	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 37	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO
NAKALELE -FLO 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAHOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	390		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386	9484	03	WAILUKU	3	20 54	156 30	190	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870					KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 29	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 15	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	U S WEATHER BUREAU
HOLUALUA 70	A 1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		7A			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1950		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1340		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 45	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A		C	SHIGEO MASUYA
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1090					HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	280	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		VAR		C	MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF LAN RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103		8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIOOLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 59	475		8A			KONA EXPERIMENT STA
MIOOLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	500					HAWAIIAN RANCH CO

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1570	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1470		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	15		6A			KOHALA SUGAR CO
ODKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 18	155 54	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 24	415		7A			PAAUHAU SUGAR CO
PAAULIU 221	7312	01	HAMAKUA	1	20 03	155 24	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	8A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO, INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIMONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
PUHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5		6A			ERWIN H. RAPP
PUU KIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH&GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU WALI 113	A 8513	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUMAU 167	A 8548	06	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A			DON WINTERS
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		E	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500				E	HAWAIIAN RANCH COMPANY
UMIKOA 115	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCU 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANOPULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830		7A		E	KAHUA RANCH
CLOSED STATIONS ISLAND OF OAHU												
KAMEHAME 724.7	3056	01	KOOLAUPOKO	1	21 19	157 41	1380				E	CLOSED 2/11/70
PEARL CITY TERRACE 754.1	7933	03	EWA	3	21 25	157 58	240					CLOSED 3/16/70
NEW STATIONS ISLAND OF OAHU												
MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240				E	CLARENCE LEE

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTER 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- – No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

- \+ And also on an earlier date or dates

- ++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data

- * Amount included in following measurement, time distribution unknown.

- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

- H Adjusted to a full month

- J "Supplemental Data" table.

- M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.

- R Amounts from recording gage.

- T Trace, an amount too small to measure.

- V Includes total for previous month

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- AR Observation made after rain.

- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'E'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

- MO Gage read once monthly, usually on the last day

- OC Gage readings at periods varying from a few weeks to several months.

- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

- SS Observation time is near sunset.

- VAR Observation time is variable.

- WI Gage read weekly or irregularly only.

- WM Gage read weekly and last day of month.

- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE--7/6/70-890

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

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AUG 22 1970
SCI., TECH. & AGR. DIV.

HAWAII

APRIL 1970

Volume 66 No. 4

CLIMATOLOGICAL DATA

Station		Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days: Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days: .10 or More	.50 or More	1.00 or More
* * *																							
ISLAND OF KAUAI																							
ANAHOLA 1114	A													2.78	- 1.33								0
KANALOHULUHULU 1075		67.4	51.6	59.5		72	10	43	8	0	0	0	0	4.96		1.90	20	.0	0		11	2	1
KAPAA STABLES 1104	A													4.23				.0	0				0
KILAUEA FIELD 17 1135	A													7.58	- .23			.0	0				
KILAUEA POINT 1133		75.6	67.8	71.7		79	20	65	24+	0	0	0	0	3.21		.70	26	.0	0		10	1	0
KŌLOA 936	A													8.24	3.51	1.32	3	.0	0				
LIHUE W8 AP 1020.1	R	80.3	70.8	75.6	3.1	82	11+	68	24+	0	0	0	0	2.83	- .51	1.04	19	.0	0		6	1	1
MANA 1026		85.7	62.4	74.1	1.4	88	23	59	24+	0	0	0	0	.12	- 1.13	.08	27	.0	0		0	0	0
N WAILUA DITCH 1051	A													20.43				.0	0				
PH WAINIHA 1115														18.36	6.09	2.60	20	.0	0		24	13	6
PUEHU RIDGE 1040														.50		.29	12	.0	0		2	0	0
WAHIAWA 930	A													2.85	.93	.81	21	.0	0			1	0
WAIAHI LOWER 1054		77.1	63.1	70.1		80	21+	59	7	0	0	0	0	13.07		1.96	20	.0	0		22	12	2
WAIMEA 947														.12	- 1.01	.12	13	.0	0		1	0	0
ISLAND				70.2										6.38				.0					
* * *																							
ISLAND OF OAHU																							
HONOLULU 08SEPV 702.2														.06		.02	2+	.0	0		0	0	0
HONOLULU W8FC 703	R	85.0	71.6	78.3	4.1	86	30+	69	8	0	0	0	0	.74	- .57	.27	10	.0	0		1	0	0
KAHUKU 912	A	79.5M	69.1M	74.3M	1.1	82	10	66	29	0	0	0	0	2.28	- .57	.62	21	.0	0			1	0
KANEOHE MAUKA 781		78.3	67.6	73.0	.5	81	10	60	17	0	0	0	0	4.39	- 1.14	.79	21	.0	0		14	3	0
KOOLAU OAM 833														14.31	7.36	1.57	28	.0	0			12	4
LUALUALEI 804		83.5	70.1	76.8		86	19+	65	8	0	0	0	0	.85				.0	0				0
MAKAPUU POINT 724		73.8	63.6	68.7		78	15	58	18+	0	0	0	0	4.37	2.59	2.73	21	.0	0		6	1	1
NUUANU RES 4 783														3.50	- 6.51	.48	2	.0	0		12	0	0
OPAEULA 870	A	77.1	62.5	69.8	1.8	82	12+	60	21+	0	0	0	0	5.42	1.26	.70	2	.0	0				0
PALOLO VALLEY 718														14.82	2.31	1.62	19	.0	0		27	12	5
PRI WAHIAWA 820.2	A	80.0	63.0	71.5		85	22+	59	8	0	0	0	0	2.51				.0	0			0	0
PUNALUU 884	A													6.14				.0	0				
WAHIAWA OAM 863	A													.98				.0	0			0	0
WAIAHOLE 837	A													13.46	.16			.0	0				
WAIALUA 847	A	81.1	63.2	72.2	.7	86	9	58	8	0	0	0	0	1.69	- .03	.63	21	.0	0			1	0
WAIKIKI 717.2		82.2M	69.3M	75.8M		86	21	65	24+	0	0	0	0	.98		.19	22	.0	0		4	0	0
WAIMANALO EXP FARM		79.7	68.6	74.2		83	20	62	20	0	0	0	0	7.52		6.40	21	.0	0		4	1	1
WAIPAHU 750	A													1.33	- .55	.68	21	.0	0			1	0
ISLAND				73.5										4.74				.0					
* * *																							
ISLAND OF MOLOKAI																							
KUALAPUU 534	A													2.85	- .21			.0	0				0
MAPULEHU 542														8.01	4.96	1.63	20	.0	0		22	6	1
MAUNALOA 511	A													1.94	- .37			.0	0				0
MOLOKAI AP 524		78.2	68.6	73.4		82	21	66	25	0	0	0	0	2.05		.80	5	.0	0		6	1	0
ISLAND				73.4										3.71				.0					
* * *																							
ISLAND OF LANAI																							
LANAI CITY 672	A	73.8M	61.1M	67.5M	.5	78	17+	59	9+	0	0	0	0	2.11	- .81			.0	0				0
ISLAND				67.5										2.11				.0					
* * *																							
ISLAND OF MAUI																							
HALEAKALA 8 E S 434	A													14.75	6.79	2.73	2	.0	0		17	12	4
HALEAKALA RS 338		59.2	42.3	50.8		68	8	34	25	0	0	0	0	10.35		2.50	2	.0	0		12	6	4
HANA AIRPORT 355		80.0	67.1	73.6		82	21+	64	27+	0	0	0	0	12.98		4.23	12	.0	0		18	9	2
HONOKOHUA 493	A													4.57	1.39	.65	22	.0	0			2	0
KAANAPALI AIRPORT		81.2M	67.0M	74.1M		84	22+	64	8	0	0	0	0					.0	0				
KAHULUI W8 AP 398	R	83.2	67.1	75.2	1.8	88	20	59	8	0	0	0	0	1.37	- .07	.29	11	.0	0		6	0	0
KAILUA 446		75.0	64.4	69.7	.6	77	14+	62	26+	0	0	0	0	24.64	13.11	5.60	21	.0	0		24	14	7
KEANAE 346	A													45.90	20.80			.0	0				
KIPAHULU 258														11.01	3.97	1.62	13	.0	0		19	9	4
KULA SANATORIUM 267		70.3	52.9	61.6	- .4	73	4	50	26	0	0	0	0	3.14	.45	1.35	20	.0	0		6	2	1
LAHAINA 361		84.1	65.9	75.0		86	28+	63	25	0	0	0	0	.38	- .67	.25	11	.0	0		2	0	0
PAIA 406														3.54	.41	.50	23	.0	0		12	1	0
WAILUKU 386		78.6M	68.3M	73.5M	.9	83	21	66	23	0	0	0	0	1.91	- .79			.0	0				0
ISLAND				69.2										11.21				.0					
* * *																							
ISLAND OF HAWAII																							
HAINA 214		78.3	63.5	70.9	.9	82	21	61	25+	0	0	0	0	15.11	7.44	2.26	24	.0	2		21	14	4
HAWAII VOLCNS NP HQ 54		65.5M	52.0M	58.8M	- .3	70	21+	49	28	0	0	0	0	15.80	7.40	2.35	23	.0	2			11	4
HILO W8 AIRPORT 87	R	79.7	65.1	72.4	.8	83	20+	61	28+	0	0	0	0	28.60	16.68	7.20	21	.0	2		23	16	8
HUEHUE 92.1	A													2.22	- .79			.0	2				0
KAINALIU 73.2		76.9	61.0	69.0		80	22+	59	29+	0	0	0	0	4.30	- 1.36	1.46	22	.0	1		7	3	2

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 39

CLIMATOLOGICAL DATA

Continued

Station	Temperature								No. of Days				Precipitation				Snow, Sleet			No. of Days		
									Max.		Min.											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191	70.9	49.8M	60.4M		74	22+			0	0	0	0	2.56		1.14	20	.0	0		8	2	1
KEAAU 92	79.4	63.9	71.7	.6	81	27+	61	28+	0	0	0	0	24.45	12.03	5.33	22	.0	0		25	15	7
KEALAKEKUA 26.2	77.6	61.5	69.6		81	10+	59	1	0	0	0	0	3.22		.91	13	.0	0		8	2	0
KONA AIRPORT 68.3	81.9M	64.2M	73.1M		85	30+	60	7+	0	0	0	0					.0	0				
KUKUIHAELE HIC 199													13.19	3.96	1.96	24	.0	0		23	8	4
KULANI CAMP 79	60.3	45.1	52.7		66	21	32	20	0	0	1	0	21.04		3.43	23	.0	0		24	12	7
PAHALA 21	79.8	62.2	71.0	1.2	84	3	57	18	0	0	0	0	3.57	.41	1.60	21	.0	0		5	3	1
POHAKULOA 107 A													1.82				.0	0				0
PUAKO 95.1 A	85.6	70.0	77.8		89	26	66	20+	0	0	0	0	.07		.04	11	.0	0		0	0	0
PUU WAAWAA 94.1 A													2.31	.01	1.00	12	.0	0			1	1
UMIKOA 118													19.26	9.93	7.60	24	.0	0				4
WAIAKEA SCO 88.2													36.16		4.28	27	.0	0		27	18	12
ISLAND			67.9										12.11				.0					

EXTREMES

HIGHEST TEMPERATURE 2 STATIONS	89	DATE	26+
LOWEST TEMPERATURE MAUNA LOA SLOPE 08S, HAWAII	28	DATE	29+
GREATEST TOTAL PRECIPITATION WAIKAMOI DAM 336, MAUI A	50.48		
LEAST TOTAL PRECIPITATION 2 STATIONS, MOLOKAI	.00		
GREATEST 1 DAY PRECIPITATION HONOMU MAUKA 138, HAWAII	9.18	DATE	21

See Reference Notes Following Station Index

HAWAII - APRIL 1970

SPECIAL WEATHER SUMMARY

Foresters, ranchers, and agricultural interests in much of the State breathed sighs of relief with the arrival in mid-month of the first substantial rains in many weeks. Showers and thunderstorms on the 11th and 12th and again on the 20th and 21st brought widespread, although by no means complete, relief from the prolonged drought which in some areas had persisted for as long as a year.

(1) On Hawaii Island the drought emergency in effect for the Puna District since February 5 was lifted on April 14, and those declared on February 13 for Kau and on March 6 and 18, respectively, for the North and South Kona Districts, were rescinded on April 16.

(2) After a thunderstorm on the 12th, snow extended down to the 9,000-foot level on the northern slopes of Mauna Loa and Mauna Kea.

(3) Late on the 20th, 2 thunderstorms about 6 hours apart drifted south or southeastward along the windward Oahu coast from Kailua to Makapuu Point. The second of the storms gave Waimanalo 4.7 inches of rain, 3.6 inches of which occurred in the single hour from 11:15 p.m. to 12:15 a.m. and 1.2 inches in the 15 minutes beginning at midnight. Some street flooding resulted in Kailua and Waimanalo.

Despite the rains, many areas remained dry. Western sections of Kauai and Oahu, the southwestern coast of West Maui, and scattered gages elsewhere, had well below half their average rainfall for April; and a number of other gages on all the islands received less than the month's normal.

Of the 5 stations which in March had reported their 14th consecutive month of below-normal rainfall, 4 added yet another month: Kaunakakai and Maunaloa on Molokai; and Kapapala Ranch and Manuka on Hawaii Island. In contrast Papaikou Mauka, on the slopes above the Hilo coast, had the wettest April in its 44 years of record; 47.38 inches. (Its previous record was 47.00 inches, in 1963.)

April continued the warm trend of March, as Weather Bureau Offices at Lihue and Honolulu reported some of their highest temperatures of record.

LIHUE -- 21 years of record:

Highest average minimum	70.8	(68.8)
Highest mean	75.6	(75.0)

HONOLULU -- 24 years of record:

Highest average maximum . . .	85.0	(83.6)
Highest average minimum . . .	71.6	(69.9)
Highest mean	78.3	(76.7)

( ) -- former record

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DAILY PRECIPITATION

HAWAII
APRIL 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																
ANAHOLA 1114	A	2.78		.18	.53	*	*	.06					*	*	.11	.03	.11		.07	*	*	.55	.05	.06	.06	.05	*	*	.65	.05	.17	.05
BRYDES-200 STA 985	A	5.29	.02	.16	.39	*	*	.18	.01	.06		.27	*	*	.05	.07	.15	.05	.17	*	*	.79	.27	.22	.38	.18	*	*	1.14	.27	.35	.11
EAST LAWAI 934	A	7.17	.05	.20	.81	*	*	.19	.01	.03		.86	*	*	.30	.46	.02	.11	.17	*	*	.76	.23	.15	.63	.49	*	*	1.01	.19	.45	.05
ELEELE 927	A	1.10		.01	.03							.07	*	*	.02	T		.03	.11	*	*	.25	.03	.04	.06	T	*	*	.25	.06	.13	.01
HALAULA 1110	A	4.52		.15	.75	*	*	.19		.02		.15	*	*	.40	.20	.09		.03	*	*	.70	.15	.10	.10	.15	*	*	1.10	.04	.15	.05
HALENANAHO 1006	A	8.58	.06	.25	.96	*	*	.31	.03	.06		.86	*	*	.66	.35	.04	.04	.24	*	*	1.26	.31	.16	.72	.55	*	*	1.21	.10	.29	.12
HUIPO 945		.15													.15																	
ILILILIULA INTAKE 1050	A	16.75	.07	.68	1.37	*	*	.61	.05	.20	.17	1.45	*	*	1.12	.37	.56	.36	.72	*	*	2.02	.40	.98	.39	.33	*	*	3.17	.92	.63	.18
INTAKE WAINIHA PC 1086	A	30.71	*	6.33	*	*	.85	*	*	*	*	*	*	*	1.07	*	*	*	1.80	*	*	7.25	.82	1.85	*	4.72	*	*	6.02	*	*	*
KALIHIWAI RES 1131	A	9.44	.09	.49	.99	*	*	.37	.03	.05	.04	.82	*	*	.61	.12	.26	.12	.23	*	*	1.26	.23	.32	.28	.16	*	*	2.34	.27	.24	.12
KAWAILOHIA UHULU 1075		4.96	.06	.87	.29	.03	.02				.03	.02	.13	.08	.03	.06		.20	1.90	.15	.18	.36	.05	.11	.14	.15	.04	.04	.02			
KAWEHA RESERVOIR 1092	A	10.64	.03	.50	1.40	*	*	.53	.05	.11	.05	.45	*	*	.53	.70	.30		.25	*	*	2.20	.10	.20	.40	.25	*	*	2.05	.30	.19	.05
KAPAA STABLES 1104	A	4.23	.03	.06	.70	*	*	.25		.03		.30	*	*	.15	.08	.28		.15	*	*	.92	.24	.04	.09	.07	*	*	.72	.07		.05
KEALIA 1112	A	3.15	.02	.06	.45	*	*	.10		.02		.45	*	*	.35	.18	.15		.20	*	*	.20	.02	.02	.06	.13	*	*	.65	.02	.07	
KEKAHA 944		.11									.05											.05							.01			
KILAUEA 1134	A	5.00	.02	.12	.52	*	*	.19	.02	.29		.13	*	*	.16	.18	.13		.13	*	*	1.36	.05	.18	.16	.07	*	*	.78	.26	.12	.13
KILAUEA FIELD 17 1135	A	7.58	.04	.42	.74	*	*	.37	.03	.15	.05	.43	*	*	.36	.06	.25	.01	.03	*	*	1.45	.18	.21	.20	.06	*	*	1.78	.21	.21	.34
KILAUEA POINT 1133		3.21	.07	.38	.14			.09	.13		.15	.06	.04	.06	.06	.02			.08	.42	.15	.01	.06	.10	.03	.09	.09	.70	.02	.14	.02	.10
KOLO 1033		.32																				.23							.09			
KOLOA 936	A	8.24		.21	1.32	*	*	.25	.01			.65	*	*	.47	.58	.28	.05	.16	*	*	1.09	.02	.08	.78	.88	*	*	.89	.09	.35	.08
KOLOA MAUKA 994	A	9.76	.07	.27	.98	*	*	.31	.02	.04	.07	.96	*	*	.68	.29	.09	.09	.46	*	*	1.19	.62	.43	.73	.19	*	*	1.24	.27	.70	.06
KOLOKO RES 1137	A	6.55		.55	1.07	*	*	.12	.04	.12		.52	*	*	.28	.10	.11		.08	*	*	.93	.11	.13	.34	.03	*	*	1.79	.08	.10	.05
KUKUIULA 935	A	4.23	.02	.12	.67	*	*	.15	T	.01		.17	*	*	.17	.51	.01	T	.10	*	*	.56	.06	.08	.54	.27	*	*	.44	.05	.25	.05
LIHUE VARIETY STA		6.99	.05	.28	.64	.09	*	.05	.01	.08	.02	.47	.35	.22	.09	.12	.02	.02	.06	.14	.19	1.72	.03	.11	.32	.02	.34	*	.74	.25	.42	.14
LIHUE 1020	A	5.07		.26	.41	*	*	.09	.03	.03		.51	*	*	.29	.14	.05	.03	.07	*	*	1.98	.03	.02	.35	.16	*	*	.32	.07	.21	.02
LIHUE #8 AP 1020.1	R	2.83	.02	.26	.05	.04	T	.01	.02	T	.35	T	.01	.05	.09	.09	.02	.09	T	.06	1.04	.05	T	.02	.22	.04	.15	.03	T	.12	T		
MAKAHUENA POINT 940.1		2.72			.75	.09	.02	.01	.01			.06	.01	.01		.20		.05			.05	.15		.10	.86	.15	.01	.06			.03	.10	
MAKAWELI 965	A	.27									.03						.04	.01		.01	.04			.01				.10	.02	.01			
MANA 1026		.12																				.04							.08			
MOHIHI UPR CROSS 1083	A	10.17	.64	2.14	.54							.05		.16		.43	.05	.11	.05	.11	.75	1.13		.75	.86	.59	.21	.64	.43	.05	.43	.05	
MOLOAA 1145	A	2.51		.21	.32	*	*	.07		.04	.04	.09	*	*	.09	.08			.11	*	*	.45		.11	.19	.03	*	*	.64		.04		
MOUNT WAIALEALE 1047		48.55	2.36	3.23	3.54	.16	.28	.31	.59	.08	.39	1.73	.98	1.46	1.06	.55	2.09	1.50	.43	1.54	4.61	.39	1.57	1.73	1.57	3.23	.55	4.09	4.13	1.65	1.10	1.65
NIU RIDGE 1035		.28																				.18							.10			
N WAILUA DITCH 1051	A	20.43	.20	.56	1.26	*	*	.90	.20	.70	.20	.60	*	*	1.30	.40	.75	.20	1.20	*	*	3.25	1.10	1.25	.75	.60	*	*	2.10	1.20	.55	.56
PH #AINIHA 1115		18.36	.10	.77	1.73	.57	.08	.02				.55	.16	.70	1.14	.20	.25	.05	.38	.17	1.84	2.60	.15	1.02	.65	.19	.77	.44	2.48	.45	.38	.52
PRINCEVILLE RANCH 1117		8.85	.04	.21	.72	.17		.01				.54	.15	.20		.10	.37	.05	.34	.11	.09	2.31	.10	.40	.29	.06	.33	.72	.98	.12	.28	.16
PUEHU RIDGE 1040		.50												.29								.15							.06			
PUHI 1013	A	7.11	.04	.17	.82	*	*	.13	.04	.11		.88	*	*	.36	.38	.05	.12	.13	*	*	1.65	.07	.20	.61	.18	*	*	.56	.09	.26	.06
RESERVOIR 6 1004	A	7.42	.07	.46	.92	*	*	.11	.04			.91	*	*	.74	.18	.03	.13	.11	*	*	1.04	.13	.09	.82	.34	*	*	.93	.07	.30	
WAHIAWA 930	A	2.85	.01	.04	.12	*	*	.02				.07	*	*	.02	.03		.03	.16	*	*	.45	.81	.12	.24	.05	*	*	.37	.03	.26	.02
WAHIAWA MOUNTAIN 990	A	19.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	19.75
WAIAHI LOWER 1054		13.07		.39	.95	.45	.05	.01		.17	.18	.91	.55	.57	.19	.38	.09	.07	.23	.09	.53	1.96	.67	.56	.42	.23	.73	.20	1.07	.51	.82	.09
WAIAHI UPPER 1052		14.14	.03	.42	.95	.35	.17	.05	.03	.19	.15	.65	.85	.39	.25	.55	.29	.25	.45	.03	.24	1.25	.33	.93	.45	.30	.69	.23	1.95	.65	.97	.11
WAIAWA 943		.02																				.02										
WAILUA KAI 1065	A	3.50	.05	.05	.27	*	*	.13				.12	*	*	.34	.10				*	*	1.43		.14	.19	.05	*	*	.50	.03	.05	.05
WAIMEA 947		.12													.12																	
WEST LAWAI 931	A	4.17	.02	.09	.55	*	*	.13	.04	.06		.17	*	*	.10	.24	.28	.02	.10	*	*	.50	.31	.14	.43	.24	*	*	.50	T	.22	.03
ISLAND OF OAHU																																
AIEA FIELD 625 761	A	4.36	.12	.17	.18	*	*	.77	.05				*	*	1.74	.10		.10		*	*	.23		.08	.09		*	*	.37	.04	.32	
BERETANIA PUMPING STA		2.16	.08	.16	.07		.42	T	.03			.32		.17		.05	.10	.09	.02	.02	.03			.26	.12				.13	.04	.10	
CAMP 8& 807	A	.76	.02	.16	.05	*	*	.03	*	*	.02	*	*	*	.07	*	*	.07	*	*	*	.05	*	*	.04	*	*	*	.12	*	*	.13
CHURCH COLLEGE LAIE		3.19	.15	.07	.43		.03		.01		.01	.05		.1	.02	.11		.11		.02		.18	1.02	.01	.06	.02	.04		.36	.21	.03	.15
COCONUT ISLAND 840.1		2.24	.05	.06	.16	.02	.05	.01	.05		.06	.01	.07	.1			.01	.01		.04	.02	.17	.91	.05							.29	.02
EWA PLANTATION 741		.08		.02			.01					T													.03					.02		
HELEMANO INTAKE 881	A	5.82	*	.98	*	*	*	.92	*	*	.06	*	*	*	.45	*	*	.50	*	*	*	.70	*	*	.53	*	*	*	1.22	*	*	.46
HOKULOA 725.2	A	.59	*	*	*	*	*	*	.19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.20	*	*	*	*	.20	*	*	*
HONOLULU OBSERV 702.2		.06	.02	.02	T		.01		.01																T						T	
HONOLULU WBFC 703	R	.74	.02	.04	.03	.03	.08	T	.01		T	.27	T	T	.01	T	T	.01	T	T			T	.08	.01	T	T	.05	T	.07	.03	T
HONOLULU SUBSTA 704		1.58	.05	.13	.03	.05	.30					.17			.07		.06	.03	.03	.04			.03	.23				.05	.06	.17	.07	.01
H S P A EXP STA 707		3.60	.24	.35	.19	.06	.30	.01	.02	T		.41		.27		.12	.11	.14	.01	.12	.04			.27	.34		.06		.09	.03	.41	.01
KAHANA 883	A	24.84	*	*	*	*	*	5.85	*	*	*	*	*	*	6.77	*	*	*	*	*	*	6.60	*	*	*	*	*	3.67	*	*	1.95	
KAHUKU 912	A	2.28	.12	.08	.49	*	*	.05	.02			.02	*	*	.10	.03			.11	*	*	.14	.62	.01	.10	*	*	*	.10	.15	.14	
KAILUA FIRE STA 791.3		5.61	T	.20	T	.60	.01	.02	.01	T		T		T		.05	.02	T	.01		T	4.60	T	T	T	.02	T	.01	.02	.04	T	
KALIHI RES SITE 777		9.14	.14	1.10	.60	.12	.22	.08	.04	.04	.50	.22	.64	.74		.12		.22	.08	.32	1.86	.58	.02	.06	.08	.18	.08	.16	.42	.30	.10	.12
KANEOHE MAUKA 781		4.39	.02	.25	.62	.10	.11	.01	.05		.05	.04	.12	.3	.05	.05	.15	.16	.01		.13	.55	.79	.10	.01		.01	.01	.05	.13	.42	.01
KANEOHE RANCH 838	A	3.00	*	.24	.45	.15	*	.08	.05		.14	.03	*	*	.17	T		.25	.03	*	*	.63	.27	.03	.05		.08	T	T	T	.35	T
KAPALAMA 773	A	5.99	.44	.40	.64	*	*	.52	.05				*	*	.55	.12	.24	.18		*	*	.45	.12	.30	.23		*	*	.90	.06	.68	.11
KAWAIHAPAI 841	A	1.55		.31	.14	*	*	.09	.02				*	*	.04	.02		.02		*	*	.02	.25		.09		*	*	.45		.10	
KAWAI IKI INTAKE 880.2	A	*	*	*	*	*	*	.18	*	*	*	*	*	*	.08	*	*	*	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KEMOO CAMP 8 855	A	1.19	.07	.10	.01	*	*	.18	.05				*	*	.08	.01	.01	.04	.02	*	*	*	*	.02	.17	*	*	*	.27	.01	.07	
KOOLAU DAM 833		14.31	.64	.72	1.22	.16	.80	.12	.45	*	*	.23	.03	.88	.03	.27	.11	.30	.74	.88	.13	.14	.04	1.21	.24	.03	.05	.60	.92	1.57	1.38	.42	
LUALUALEI 804		.85		.01	.01								*	*	.68			.02	.03					.02	*	.02	*	*	.02		.04		
LUALUALEI WTR TUNNEL	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
UNALILO HOME 724.2		2.15	.10		*	.16	*	.43		.05			*	*	.05	.03	.07						.97		*	.07		*	.06	.03	.13		
MAKAHA KAI 796	A	.03																														
MAKAHA PUMP 800.2	A	1.06		.02			.04							1.00																		.03	
MANAPUA POINT 724		4.37	.02	.07	.06	.25	.45	.10	.01			.03		.09		.02	.04	.03	.01	.05			2.73	.24	.10	.01				.01	.05	
MANOA 712		10.52	.13	.55	.98	.90	.32	.67	.02	.09		.02	1.08	.09	.62	.20	.32	.54	.40	.07	.31	.25			.51	.65		.37	.12	.44	.18	.69
MANOA TUNNEL 2 716		17.88	.94	2.88	1.48	.86	.40	.36	.06		.24	.54	1.48	1.72	.44	.72	.04	.48	.18	.60	.74	.02	.06	*	*	*	*	*	*	2.74	.68	.20
MOANALUA 770		3.02	.11	*	.28	.09	.38	.02	.07			.54	.01	*	.17	.09	.08	.14	.04	.09	T			.12	.08			.04	.24	*	.42	.01
NUUANU RES 4 783		3.5	.10	.48	.36	.02	.04				.06	.20	.24	.14		.08		.30	.02	.24	.36	.02	.02	.04	.08	.04	.06	.06	.20	.08	.16	.10
NUUANU RESERVOIR 5 775	A	8.93	*	.12	1.18	*	*	.39	.13	.02	.05	.95	*	*	.77	.07	.43	.65	.08	T	*	.62	.02	.44	.25	T	*	*	1.33	.46	.77	.20
OPAEULA 870	A	5.42	.28	.70	.35	*	.65	.02	.25		.01	.10	*	.03	.02	.27		.06	.20	*	.63	.02	.10	.10	.23	.04	*	.45	.53	.05	.25	.08
PALOLO VALLEY 718		14.82	.64	1.52	1.12	.60	.52	.34	.10			1.02	.42	1.24	.14	.58	.10	.36	.08	.34	1.62	.14	.46	.68	.28	.54	.26	.46	.16	.58	.28	.24
PAUOA FLATS 784		17.78	.36	2.22	1.50	.44	.50	.50	.22	.04	.52	.92	1.78	1.08	.12	.66	.22	.76	.10	.58	.62	.04	.42	.48	.32	.08	.20	.66	.86	.62	.58	.40
PORTLOCK ROAD 724.4	V	2.76	.03	.10	.12	*	.32	.37	.05			.01	.02	.02	.01	.18		.04	.03	.08	.66	*	.38	.03	.01	.01		.09	.02	.03	.01		
PRI WAHIAWA 820.2	A	2.51	.13	.19	.06	T	*	.46	.05				*	*	.16	.03		.05	.04	*	*	.12	.12	.17	.41	*	*	*	.37	.04	.11		
PUNALUU 884	A	6.14	.05	.15	.60	*	*	.08	.05		.10	.04	*	*	.82	.15		.04	.05	*	*	2.00	.89	.02	.08	.02	*	*	.34	.28	.36	.02
PUNCHBOWL CRATER 709	A	4.22	.15	.28	.19	.06	.53		.04	.01		.44	.01	.28			.30	.10	.07	.14	.01	.20		.23	.33	.02	.02	.02	.19	.12	.40	.10	
ST STEPHENS SEM 788		4.78	.04	.39	1.23	.14	.02	.04	.11	T	.03	.10	.03	.09	.18	.02	.09	.08		.03	.15	.64	.57	.09	.09	T	.03	.02	.04	.06	.40	.07	
TANTALUS 2 780.5		14.71	.15	.76	1.43	.21	1.21	.04	.37	.02	.10	1.00	.22	.81	.12	.27	.77	.45	.38	.79	.28			.87	.86	.04	.12	*	1.01	.53	1.45	.45	
UNIV OF HAWAII 713	A	5.2	.27	.40	.34	*	*	.40	.04				*	*	.66	.20	.12	.11	.03	*	*	*	.26	T	.42	.76	.04	*	*	.36	.10	.68	.01
WAHIAWA DAM 863	A	.98	.06	.05	.03	*	*	.20	.06				*	*	.01	.02		.03		*	*	.02		.04	.05		*	*	.19	.01	.19	.02
WAIAHOLE 837	A	13.46	.11	.65	1.00	*	*	.51	.12	.02	.03	.38	*	*	3.32	.18	.08	.20	.11	*	*	2.98	1.47	.47	.09		*	*	.73	.22	.54	.25	
WAIALAE KAHALA 715		2.15	.09	.24	.10	.10	.10	T	.07	T		.05	T	.21	.01	.16	.06	T	.02	.10	T		.02	.40	.19	T	.04	T	.02	T	.17	T	
WAIALUA 847	A	1.69	.04	.17	.10	T	*	.16	.02									T			.02		.63	T	.16	T		.03	.29	T	.07		
WAIANAE 798	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAIANAE MAUKA 803	A	7.26	.40	*	*	.34	*	*	.42	*	*	*	.07	*	*	*	2.27	*	*	.22	*	*	*	1.30	*	*	1.42	*	*	*	*	.82	*
WAIAWA 836	A	13.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.15	
WAIKANE 885	A	16.66	*	*	*	*	*	4.00	*	*	*	*	*	*	4.08	*	*	*	*	*	*	4.00	*	*	*	*	*	*	3.26	*	*	1.32	
WAIKIKI 717.2		.98	.03	.11	.02	.05	.02	T	.04			T		.13		.04	.03	.03	T	.03				.19	*	.09			.01	T	.16	T	
WAIMANALO EXP FARM		7.52	.17	.17	.07	.02	.08	.01	T					.06	.01	.02	.07	.06		.04	.02	.03	6.40	.02	.08				.09		.10		
WAIMEA 892	A	3.72	.19	.58	.32	*	*	.38	.06			.04	*	*	.07	.10		.11	.10	*	*	.27	.12	.08	.18		*	*	.82	.01	.14	.15
WAIPAHU 750	A	1.33	.02	.06	T	*	*	.10	.01			T	*	*	.21			.01	.01	*	*	.01	.68	.05	.02		*	*	.02	T	.13	
WILHELMINA RISE 7.		5.68	.38	.60	.26	.26	.14	.06	.04		.10	.24	.18	.28	.18	.14	.08	.08		.20	.12	.02	.12	.54	.34	.14	.08	.14	.06	.62	.20	.08	

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

HAWAII
APRIL 1970

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF MOLOKAI																															
KALAUPAPA 563	A	4.91	.07	.17	.21	.06	.35	*	*	*	.50	*	*	*	.84	*	*	*	.37	*	*	.43	*	.73	.64	*	.30	*	.24	*	*	*	
KAUNAKAKAI 536	A	.00																														
KEONELELE PENS 551	A	.00																														
KUALAPUU 534	A	2.85	.22	.24	.25	*	*	.90	.04			.03	*	*	.07	.19		.04		.03	*	.02	.09	.09	.48	.02	*	*	.11		.03		
MAPULEHU 542		8.01	.63	.48	.18	.32	.02	.04			.08	.67	.37	.56	.51	.13	.28	.05	.10	.10	.11	1.63	.09	.59		.13	.11	.36	.10	.10	.13	.14	
MAUNALOA 511	A	1.94	.10	.20	.12	*	*	.40	.01			.01	*	*	.02			.01		*	*	.79	.20	.02	.04					.02		
MOLOKAI AP 524		2.05	.08	.19	.08	.17	.80	.18	.05						T	.05		.03	T	.09			T	.04	.10		T		.16		.03		
PUUOHOKU RANCH 542.1		4.13	.24	.58	.10	.20		.04			.01	.18	.04	.18	.11	.09	.16	T	.12	T	.31	.32	.19	.36	.01	.51	T	.14	.06	.14	T	.04	
WAIKOLU 540	A	16.03	*	*	*	*	*	7.15	*	*	*	*	*	*	1.78	*	*	*	*	*	*	*	3.10	*	*	*	*	*	4.00	*	*	*	
* * * ISLAND OF LANAI																																
KANEPUU 690	A	.68	*	.22	*	*	*	*	*	*	*	.07	*	*	*	*	*	.06	*	*	*	*	*	*	.33							
KAUMALAPAU HARBOR 658	A	.38										.08	*	*	.06					*	*	.24										
LANAI CITY 672	A	2.11	*	.01	T	*	*	.15	.24	T		T	*	*	.16	T	T	.05	.03	*	*	.80	.35	.01			*	*	.31				
LANAIHALE 684	A	2.17	*	*	*	.32	*	*	*	*	*	*	.13	*	*	*	*	*	.30	*	*	*	*	*	*	*	1.42	*	*	*	*	*	
MAHANA 694	A	.48	*	.04	*	*	*	*	*	*	*	.01							*	*	*	*	*	*	.43								
MALAUEA 676	A	.33										T							*	*	*	*	*	*	.33								
WAIAKEAKUA 685	A	1.17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.63	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.54	
* * * ISLAND OF MAUI																																
AUWAHI-252	A	1.45	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.20	*	*	*	*	*	1.25	*	*	*	*	*	*	*	*	
HALEAKALA 8 E S 434	A	14.75	.67	2.73	.88	.79	.50	.06				.03	.06	1.18	.68	.34	.38	.10	.65	.48	.07	.78	.05	.80	1.94	1.18	.03	*	.46	*	.05	.06	
HALEAKALA RANCH 432	A	6.51	.38	1.49	.31	.24	.20	*	*	*	*	*	*	1.06	.21	.10	.09	*	.14	*	*	.79	*	.16	.84	.50	*	*	*	*	*	*	
HALEAKALA RS 338		10.35	.25	2.50	.58	.25	.07	.01			T	.03	.13	.52	.34	.02	.02	.07	.28	.09	.05	.25	.02	1.20	1.96	1.50	.01		.09	.01	.09	.01	
HALEAKALA SUMMIT 338.4		3.44		.57	.07								*	*	.59				.11	*	*	.32	.42	.22	.70	.39	*	*	.05				
HALIIMAILE 423	A	5.50	.50	.62	.43	*	*	.78					*	*	.78	.08	.14	.03	.20	*	*	.50		.08	.85	.40	*	*	.08		.03		
HAMAKUAPOKO 485		7.89	.15	.54	.64	.55	.19	.29	.10	.15	.27	.03	.10	1.02	.07	.11	.19	.13	.23	.18	.08	.05	.09	1.14	.82	.54	.05	T	.08	.01	.07	.02	
HANA 354		7.23	.21	.55	.55	.09	*	.30	.08			.35	.91	*	2.05	.01	.03	.11	.03	.28	*	.51	.28	.30	.16	.09		*	.13	.06	.15		
HANA AIRPORT 355		12.98	.68	.74	.40	.20	.13	.03	.04	.06	.10	.10	1.77	4.23	.17	.16	T	.44	.06	.14	.51	.70	.76	.71	.08	T	.65	T	.02	.02	.06	.02	
HANAHULI 281		10.17	*	*	.40	1.10	.48	.12	.52		.05	.20	2.10	.70	.10	.03	.23	.42	T	.30	.13	.32	.98	.65	.34	.12	.36	.22			.08	.22	
HOLUA CABIN 259.5	A	7.64	*	2.80	*	*	*	*	*	*	*	.44	*	*	*	*	*	*	*	2.00	*	*	*	*	*	*	*	*	*	*	2.40	*	
HONOKOHAU 480	A	18.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.70	
HONOKOHUA 493	A	4.57	.15	.35	.22	*	*	.31	.06	.02	.29	.27	*	*	.32	.21	.08	.13	.03	*	*	.28	*	.65	.40	.50	*	*	.19		.11		
HONOMANU GULCH 341	A	26.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	26.00	
KAANAPALI AIRPORT		-	.23	-	.20	.14	-				T		.04	.04	T	.26	T	.01		.20	-	-	T	.01	.23	T			-		-		
KAHOMA INTAKE 374	A	17.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.53	
KAHULUI WB AP 398	R	1.37	.18	.16	T	.01	.09	T	T	T	T	.01	.29	.04		.07	T	.04	.04	.10	T		.01	.13	.20	T		T		T		T	
KAILILILI 436	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KAILUA 446		24.64	.81	.85	1.50	.46	.59	.07	.13	.04	.18	.05	1.36	3.97	.20	.57	.03	.56	.65	.85	.34	1.22	5.60	1.54	1.83	.09	.30	.02	.21	.31	.12	.19	
KAUAULA INTAKE 375	A	5.11	*	*	*	*	*	1.78	*	*	*	*	*	*	.71	*	*	*	*	*	*	.48	*	*	*	*	*	*	2.14	*	*	*	
KEAHUA 410		1.55	.29	.18	.08	.12	.08	.02					.05	.12	.01	.02	.03	T	.02	.10		.01			.30	.08	T		.04				
KEANAE 346	A	45.90	*	*	*	*	*	*	*	*	*	*	*	19.40	*	*	*	*	*	*	*	15.50	*	*	*	*	T	*	*	*	*	11.00	
KEAWAKAPU BEACH 260.2		.48												.40								.08										
KIHEI 311		.45		.02										.43								T										
KIPAHULU 258		11.01		1.22	.60	.42		.41	.15			.58	1.20		1.62	.26	.08	.23	.03			1.41	.60	.72	.67	.25	.12		.16	.05	.13	.10	
KULA HEIGHTS 323.2		2.48		.13									1.65	.06	.08							.22							.34				
KULA SANATORIUM 267		3.14		.01		.02	.20	T				.33	.03	.63	.22						.33	1.35	.02						T				
LAHAINA 361		.38											.25	.13																		
LAUNIUPOKO INTAKE 376	A	8.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.50	
LAUNIUPOKO VILLAGE 372	A	.28											.15	.09								.04											
LUPI UPPER 442	A	30.30	*	*	*	*	*	*	*	*	*	*	*	12.50	*	*	*	*	*	*	*	*	*	*	14.70	*	*	*	*	*	*	3.10	
MAHINAHINA 466		7.12	.52	.80	.38	.45	.43	.17	.03	.03	.28		.25	.02	.10	.23	.10	.03	.20	.72		.54		.14	.90	.55			.15		.10		
NAKALELE -FLO 60-497	A	3.63	*	*	*	*	*	.89	*	*	*	*	*	*	.86							.37	*				*	*	1.34	*		.17	
OLINOA 332	A	9.81	.22	2.27	.71	*	*	.48	.01			T	*	*	2.17	.02	.13	.03	.13	*	*	.79	1.13	*	.92	.64	*	*	.12	.01	.03	T	
OLOWALU 296		.07			.02									.05																		
OLOWALU GULCH 377	A	7.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.60	
PAAKEA 350		48.14	.64	2.74	1.99	.80	.70	.49	.23	.11	.78	.26	*	13.20	1.82	.85	.34	.73	1.32	.62		2.91	9.50	2.70	1.72	1.28	.71	.11	.74	.38	.22	.25	
PAIA 396		3.54	.18	.34	.30	.12	.16	.08	.02		.06		.12	.39	.05	.04	.09	.04	.10	.22	.02	.06		.40	.50	.17	T		.02	.01	.05		
PANILEIHULU 259.2	A	11.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.70	*	*	*	*	*	
POHAKEA BRIDGE 307.2	A	.29	.08	.07	*	*	*	*	*	*	*	*	*	.04	.05	*	*	*	*	*	*	*	*	*	.01	.04	*	*	*	*	*	*	
POLIPOLI SPRINGS 267.2	A	3.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.14	
PUOHOKAMOA 2 343	A	35.40	*	*	*	*	*	*	35.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU KUKUI MAKAI 472	A	20.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20.60	
PUUNENE 396		1.14	.14	.20	.08	.01	.05	T					.01	.24	T	T	.01		.01	.12				T	.15	.12			T				
SPRECKELSVILLE 400.2		2.35	.21	.21	.18	.02	.10	.10	T				T	.50	.03	.01	.14		.09	.19	T	.01		.10	.30	.14			.01		.01		
TWIN GATES 261.3	A	1.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.80										
UKULELE 333	A	17.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.00	
UKUMEHAME 301	A	.38			.13									.07											.18								
ULUPALAKUA RANCH 250		3.75						.02				.11	1.75		.63		.02					1.10			.12							
WAHIKULI 364	A	.80		.12	.08							.05	.20	.25											.05				.05			
WAIEHU CAMP 484	A	3.47	.14	.51	.21	.10	.30	.04	*	.06	*	*	.20	1.07	.10	.04	.04	*	*	.10	.09	.07	*	*	.10	.07	.10	.07	*	*	.06	*	
WAIHEE VALLEY 482	A	4.59	.12	.72	.25	.24	.23	*	*	.02	*	*	*	1.10	.10	.10	*	*	*	.37	.14	.29	*	*	.38	.02	.09	.24	.03	*	.15	*	
WAIKAMOI 449	A	38.60	*	*	*	*	*	*	*	*	*	*	*	*	17.80	*	*	*	*	*	*	14.70	*	*	*	*	*	*	*	*	*	6.10	
WAIKAMOI DAM 336	A	50.48	1.56	7.29	4.06	*	*	4.14	.05	.05	.06	.20	*	*	8.62	1.41	1.51	.80	1.59	*	*	2.69	1.03	*	6.34	5.66	*	*	2.12	.39	.64	.27	
WAIKAPU 390	A	1.12	.22	.16	*	*	.05	*	*	*	*	*	*	.10	.09	*	*	*	*	.07	*	.28	*	.04	.07	.04	*	*	*	*	*	*	
WAILUKU 386		1.91	.20	.24	.20	*	*	.20					*	*	.60		T		.02	*	*	.20		.03	.18	.01	*	*	.02		.01		
WAIOPAI RANCH 256	A	3.29												*	.04						*	1.94	*	1.31								
* * * ISLAND OF HAWAII																																
AHUA UMI 75	A	2.96	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.96	
AWINI 182.1	A	16.03	1.76	.76	.42	*	*	2.83	*	*	1.20	*	*	*	*	*	*	*	2.81	*	*	*	*	*	*	6.25	*	*	*	*	*	*	
EAST HONOKANE 183.2	A	24.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.00	*	*	
HAINA 214		15.11	.77	.64	.43	.54	.42	.55		.01	.14		.58	.84	.08	.21	.78	.15	1.38		.11	.06	.09	.31	1.29	2.26	.55	.01	1.64	.03	.62	.62	
HAKALAU 142		24.56	.13	.59	1.51	.82	.49	.31	.06	.01	.23	.12	2.55	2.25	.13	.02	.02	.77	.15	.12	.15	.15	6.86	2.30	.71	1.67	.22	.34	.74	.17	.79	.18	
HALEMAUMAU 52	A	4.09	*	*	.38	*	*	*	*	*	*	*	*	*	*	*	*	*	1.03	*	*	*	*	*	*	*	*	*	*	*	*	2.68	
HALEPIULA 117	A	9.67	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.67	
HALEPOHAKU 111	A	3.01	T	.10	.18	T							.15	.17	.30	T	*	.03	.31	T	T	.13	.10	T	.38	.19	.01	*	.95	.01	T	T	
HAWAII VOLCNS NP HQ 54		15.80	.17	.05	1.02	.64	.20	.15	.02	T	.02	.09	.83	.42	.32	.10	.37	.47	.85	.06	.09	.08	.86	.98	2.35	1.64	*	.10	2.17	.49	.72	.54	
HAWI 168	A	4.86	.43	.33	.16	*	*	.55	.10	.03	.40	.07	*	*	.33	.15	.39	.43	.21	*	*	.03	.08	.06	.30	.28	*	*	.36	.03	.03	.11	
HILO COUNTRY CLUB 8616		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HILO WB AIRPORT 87	R	28.60	.40	1.60	.66	.04	.30	.09	.02	.04	.31	1.85	.72	.67	.62	.07	.45	1.60	.06	.17	.20	1.28	7.20	.32	.61	.62	.51	2.12	.61	.08	1.68	3.70	
HOLUALOA 70	A	4.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.10	
HOLUALOA BEACH 68	A	2.42												.95	1.16		.10								.21							
HONAUNAU 27		5.65	.09	.12	.05	.30	.49	.11	.01					.10	.86	2.47	.08	.10	.29	.05	.02	.20	.02	.20	.01	.02	.03	.01				.02	
HONOHINA 137		27.23	.47	.84	1.21	.53	.55	.12	.10	.09	.14	.09	3.45	3.20	.10	.03	.05	.66	.20	.39	.14	.21	7.42	1.25	1.26	1.93	.52	.26	.69	.37	.53	.43	
HONOKANE 181.1	A	10.52	*	*	*	*	*	*	*	*	*	7.82	*	*	1.72	*	*	*	*	*	*	.98	*	*	*	*	*	*	*	*	*	*	
HONOMU MAUKA 138		43.60	.37	.89	2.37	1.38	1.50	.19	.16	.11	.18	.28	5.05	3.22	.68	.35	.13	2.77	1.06	.29	.08	.16	9.18	1.14	2.11	5.27	1.02	.45	.91	.82	.43	1.05	
HONUAULA 71	A	2.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.80	*	
HUALALAI 72	A	1.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.53	
HUEHUE 92.1	A	2.22	*	*	*	*	*	*	*	*	*	.17	*	.65	.35	*	*	.58	*	*	*	*	*	*	.08		*	.25	*	*	.08	.06	
KAALA IKI 12	A	5.09				.02	.03				.23		1.07	.79	.04	.02		T				.13	1.92	.05	.06			T	.72	.01			
KAAWALOA 29	A	3.42	.01			*	*	.25					*	*	1.29	.30	*	.29	.03	*	*	.29		.82	.13	.01							
KAINALIU 73.2		4.30	.02			.13	.03	T					.28		.58	1.07		.37	.07	.12	T			1.46	.07	.08		T	.02				
KALAPANA NO 1 67.8		10.50		.01	.83	.07	.04	.01			.05	.01	1.82	.82	*	.02	.01	.67	.38	.10	T	.01	.34	.90	.23	T	.02	T	2.67	.06	.50	.93	
KAMAOA NO 2 5	A	3.58	*	*	*	.31	*	*	*	*	*		.77	*	*	*	.97	*	*	.09	*	*	.96	*	*	*	.01	*	*	.47	*		
KAMUELA 192.2		5.31	.55	.11	.02	*	*	.30	.01	.03	.08	.02	*	*	.30	.07	.04	.08	.03	*	*	1.62	*	.02	.35	1.36	.02	*	.14	.01	.05	.10	
KAMUELA AIRPORT 191		2.56	.06	.01	T	.10	T	T	.04	T	.14	.02	.10	T	.10	.02	.02	T	T		T	1.14		T	.07	.52	T		.10	.02	.02	.03	
KAPAPALA RANCH 36	A	3.45	*	*	*	*	.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.71	.22	.30	.04	*	.86	.81		*	.05	
KAPOHO LANOING 93.5	A	11.49	*	*	1.54	*	*	*	*	*	*	2.00	*	*	*	*	*	*	6.43	*	*	*		*	*	1.52	*	*	*	*	*		

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
AAUMANA 88.1		38.81	.13	.86	2.17	2.26	.75	.37	.04	.01	.27	.17	2.68	2.20	.94	.58	.72	1.61	1.42	.20	.13	.06	2.15	2.91	1.86	5.70	.54	.30	5.10	.50	.60	1.58	
AAWAINUI LOWER 193	A	29.87	*	*	4.72	*	*	*	*	*	*	4.12	*	*	*	*	*	*	2.08	*	*	*	*	*	*	18.90	*	*	*	*	*	*	
KEAAU 92		74.45	.24	.44	1.46	.75	.60	.07	.12	.01	.16	.20	2.16	.92	.34	.18	.01	1.02	.72	.06	.05	.12	2.62	5.33	.95	.52	.29	.72	2.28	.52	.38	1.21	
KEAAU 2		3.22	.04			.19	T	.02				T	.30		.91	.39	T	.28	.05	.19	.02			.69	.13	.01		T					
KEALAKEA A 26.2																																	
KEHENA 181.2	A	16.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.25	*	*		
KIOLAKEA A & F 6	A	3.44	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.44	*	
KIPA 89.2	A	50.04	.11	1.12	2.40	1.94	.36	.37	.08	.01	.25	.11	3.55	3.31	1.20	.86	1.45	1.45	2.57	.14	.10	.36	4.00	3.25	2.87	8.66	.41	.30	4.60	.89	1.21	1.91	
KOHALA 179.1	A	6.68	.15	.45	.30	*	*	.98	.10	.05	.63	.08	*	*	.65	.10	.45	.53	.35	*	*	.04	.25	.14	.43	.17	*	*	.44	.05	.10	.21	
KOHALA MAULILI 176	A	8.13	.27	.39	.27	*	*	1.46	.15	.04	.55	.03	*	*	.54	.09	.75	.66	.26	*	*	.22	.15	.15	.41	.64	*	*	.75	.03	.14	.18	
KOHALA MISSION 175.1		7.10	.17	.52	.37	.56	.30	.22	.17	.10	.38	.09	.07	.35	.17	.13	.52	.74	.40	.01	.03	.01	.16	.12	.41	.26	.08	.01	.38	.02	.07	.28	
KOLAAE LOWER 196	A	14.49	*	*	2.25	*	*	*	*	*	*	2.64	*	*	*	*	*	*	2.80	*	*	*	*	*	*	6.80	*	*	*	*	*	*	
KONA AIRPORT 68.3		-			T						-	T	.02		.24	.04		.03			.01				.02	T	.02		.01				
KONA VILLAGE 93.8		.27									.06	.19																					
KUKAIAU 222		20.68	.33	.53	.64	.64	.35	.06	.01		.11		.96	.82	.39	.42	2.80	.37	1.28	T	.01	.23	.15	.85	1.28	3.95	.46	.01	1.67	.16	1.08	1.32	
KUKUIHAELE MIC 199		19.19	.53	.43	.16	.40	.44	.35		.16	.49		.52	1.26	.36	.18	.34	.34	.34		.02	.15	.02	.43	1.43	1.96	.58	.01	1.43	.05	.50	.31	
KUKUIHAELE MILL 200	A	11.86	.65	.47	.16	*	*	.60		.02	.38		*	*	2.72	.16	.66	.11	.31	*	*	.17	.01	.54	.62	1.62	*	*	1.95	.01	.45	.25	
KULANI CAMP 79		21.04	.05	.13	1.24	.96	.12	.09	.02		.07	.24	1.73	1.10	.25	.21	.45	.51	.73	.08	.10	.20	.79	1.22	3.43	2.50	.17	.24	3.00	.39	.37	.65	
KULANI MAUKA 76	A	7.74	.13	.50	.28	.18					.05	.37	.42	.19	.15	.05	.07	.38	.05		.09	.07	.31	.30	1.80	.45	.01	.38	.75	.03	.41	.32	
KULANI SCHOOL SITE 78	A	16.42	*	*	*	2.80	*	*	*	*	*	*	2.00	*	*	*		*	*	3.10	*	*		*	*	*	8.52	*	*	*	*	*	
LANIHAU 68.2		3.00										.05	.12		1.10	.38		.14	.09					.70	.09	.33							
MANUKA 2	A	4.73		.18		*	*	.58				.08	*	*	1.25	.95	T				*	.34	.04	.73	.24	.01	*	*	.12	.04	.17		
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUNA LOA SLOPE OBS		1.46										.03	.51	.08	.11			.03	T				.07	.03	.12	.30			.18				
MIDDLE HOLUALOA 68.1	A	2.38	*	*	*	*	*	*	*	*	*	*	*	.60	.82	*	.50	*	*	*	*	*	*	*	*	*	*	*	.25	*	*	*	
MIDDLE PEN 147.1	A	.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.60	
OAULA 18	A	7.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.00	
MOUNTAIN VIEW 91		38.63	.40	.68	2.93	1.54	1.22	.14	.18	.02	.04	.47	3.96	1.70	.63	.67	.35	.71	2.03	.22	.19	.45	2.83	1.60	2.85	1.64	.40	.98	3.06	1.38	2.08	3.28	
NAALEHU 14	A	3.83					*	*	.05		T		1.36	.40	.19	T		T		*		.10	.93	T			*		.80	T	T	T	
NAPOOPOO 28	A	1.46	*	*	*	*	*	.47	*	*	*	*	*	*	.34	*	*	*	*	*	*	.30	*	*	*	*	*	*	.35	*	*	*	
NAULU FOREST 38.6		14.15		.05	.63	.24	.13	.01			.01		2.20	.62	*	.09	T	.36	.16	T		.04	5.38	.67	.30	T			2.31	.43	.19	.33	
NIULII 179	A	7.73	.20	.47	.27	*	*	1.17	.03	.05	.56		*	*	.77	.19	.47	.59	.46	*	*	.10	.33	.40	.62	.16	*	*	.48	.04	.03	.34	
OOKALA 223		20.55	.30	.74	.69	.75	.32	.25	.02	.01	.94	.01	2.13	1.80	.68	.25	.40	.52	.67	.06	T	.30	1.24	1.60	1.46	2.38	.55	.02	1.15	.21	.70	.42	
OPIHIHALE 2 24.1		3.51		.13	1.12	T	T					.36	.30	.11	.23	T		.02	.01				1.02	T	.08	.03	T	T	.09	.01			
ORCHID LAND EST 91.5	A	19.78	*	*	3.18	*	*	*	*	*	*	1.72	*	*	*	*	*	*	8.22	*	*	*	*	*	*	6.66	*	*	*	*	*	*	
PAAUHAU 217		12.11	.30	.52	.50	.50	.33	.17			.08		.50	.71	.08	.13	.64	.10	1.12		.07	.02	.10	.22	1.57	1.76	.47		1.12	.01	.49	.60	
PAAULIO 221		19.43	.26	.83	.46	.53	.33	.01	.01		.04	T	.75	.68	.28	.53	2.79	.29	1.05	T	.03	.15	.13	.59	1.43	4.03	.28	.01	1.58	.11	.83	1.42	
PAHALA 21		3.57			.02					.02	.02		.83	.10	.07	.01			.03			.01	1.60	.09	.18		.02		.57				
PAHOA 65		23.68	.21	.35	1.10	.63	.50	.06	.14	.09	.11	.36	3.02	1.30	.48	.25	.09	1.35	.59	.12	.10	.23	3.25	1.49	.31	.15	.39	.96	3.01	.36	.45	2.23	
PAKAO 37	A	12.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.40	
PAPAIKOU 144.1		32.04	.12	.87	2.29	1.02	.45	.18	.18	.03	.05	.15	3.36	2.23	.34	.39	.18	1.66	.42	.28	.15	.17	6.32	4.89	1.34	2.62	1.02	.54	.32	.01	.12	.34	
PAPAIKOU MAUKA 140.1		47.38	.16	1.10	2.55	1.79	.87	.43	.08	.24	.55	.13	4.49	3.18	.37	.90	.72	2.38	.90	.22	.14	.28	7.44	3.08	2.43	7.45	1.00	.55	1.95	.65	.50	.83	
PEPEEKEO MAKAI 144		23.15	.18	1.01	1.74	.39	.59	.13	.08	.01	.53	.13	2.86	2.92	.50	.12	.11	1.88	.10	.38	.14	.28	4.00	1.02	.49	1.19	.21	.66	.64	.38	.15	.33	
PIIHONUA 89	A	47.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	47.00	
POHAKULOA 107	A	1.82	*	*	*	*	*	*	*	*	*	*	.54	.16	*	*	.74	*	*	*	.24	*	.03	*	*	*	*	*	.11	*	*	*	
PUAKO 95.1	A	.07										T	.04	.02							T					.01							
PUU KIHE 120	A	10.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.50	
PUU LAAU 102.1	A	3.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.25	
PUU LEHUA 73	A	1.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.86	
PUU MALI 113	A	2.96	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.96	
PUUOKUMAU 167	A	7.23	*	1.35	*	*	*	*	*	*	2.14	*	*	*	*	*	*	1.06	*	*	*	*	*	*	.66	*	*	*	*	*	*	2.02	
PUU OO 82		17.03	.04	.05	1.43	.34	.04	.11	.02		T	.15	1.15	.31	.02	*	*	*	*	*	*	*	3.60	.25	2.00	2.95	.34	.25	2.94	.30	.29	.45	
PUU WAAWAA 94.1	A	2.31										T	.30	1.07	.28						.05			.42			*	*	.26				
SADDLE ROAD 1 84	A	43.81	*	*	7.65	*	*	*	*	*	*	3.76	*	*	*	*	*	*	13.40	*	*	*	19.00	*	*	*	*	*	*	*	*	*	
SOUTH POINT CORRAL 3	A	3.19	*	*	*	.55	*	*	*	*	*	*	.53	*	*	*	*	*	*	.37	*	.47	*	*	*	*	1.27	*	*	*	*	*	
UMIKOA 118		19.26	*	.75	.27	1.02	.08	.07					.81	.23	.35	.17		*	*	*	*	.43		.17	3.23	7.60	.36	.21	2.34	.13	.64	.40	
UPOLU POINT USCG 159.2		2.73	.23	.29	.15	.07	.20	.08	.04	.01	.28		.02	.01		.02	.19	.21	.13		.01			.01	.23	.16			.27		.05	T	
WAIAKEA SCS 88.2		36.16	.41	.64	2.26	1.34	.86	.16	T	T	.26	.34	3.81	2.31	.71	.52	.80	1.69	1.67	.25	.05	.27	2.23	2.46	1.93	3.51	.39	.27	4.28	.67	.48	1.60	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.) Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Relative humidity averages-percent Standard of Time 150TH MERIDIAN 02	08	14	20	Number of days with precipitation Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
HILO, HAWAII, WB AIRPORT	8	1.1	6.7	18	NE	26	86	81	71	82	0	7	7	8	5	3	30	32	8.2
HONOLULU, OAHU, WBFC	5	14.5	15.2	37	NE	23	70	65	50	66	13	13	1	0	0	0	27	75	4.8
KAHULUI, MAUI, WB AIRPORT	5	12.6	13.1	32	E	16	78	74	59	78	11	8	6	0	0	0	25	75	5.2
LIHUE, KAUAI, WB AIRPORT	5	14.0	14.6	29	E	24	77	73	68	74	7	16	5	0	1	0	29	45	6.6

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	66	63	66	65	69	71	71	66	70	72	70	70	69	68	68	69	67	70	68	67	67	65	62	63	65	67	67	66	64	70		67.4
	MIN	54	54	52	52	51	51	45	43	45	48	53	55	53	54	53	51	53	53	54	47	51	55	54	51	50	54	55	52	53	53		51.6
KILAUEA POINT 1133	MAX	75	74	75	74	75	74	76	77	78	75	77	75	76	76	76	76	76	77	77	79	76	76	75	73	76	74	75	74	75	75		75.6
	MIN	69	70	69	68	66	67	69	72	67	68	68	69	67	67	69	68	68	67	65	67	70	69	67	65	67	66	67	68	68	68		67.8
LIHUE WB AP 1020.1	MAX	80	76	80	79	80	79	82	81	82	81	82	81	81	81	81	81	81	80	80	80	81	81	79	79	80	79	81	79	80	81		80.3
	MIN	71	70	71	70	71	71	71	70	71	72	71	71	69	70	72	72	73	70	69	68	72	71	70	68	70	72	73	71	71	73		70.8
MAKAHUENA POINT 940.1	MAX	83	80	80	80	78	79	80	81	84	83	80	82	82	80	80	80	81	81	82	82	83	82	76	79	83	80	79	81	78	81		80.7
	MIN	72	68	70	66	70	70	70	69	69	74	66	72	69	69	71	72	76	71	67	68	72	68	63	68	68	70	70	72	69	74		69.8
MANA 1026	MAX	86	87	86	85	86	86	82	81	87	87	85	86	87	86	86	86	84	86	84	86	85	87	88	87	85	86	86	85	87	87		85.7
	MIN	62	64	65	59	62	60	61	60	64	64	63	66	62	65	64	62	61	62	62	61	60	65	65	59	60	64	65	61	62	61		62.4
NIU RIDGE 1035	MAX	82	80	81	81	80	80	81	81	82	82	81	82	83	84	85	83	84	83	85	80	80	82	83	82	80	80	79	81	80	80		81.6
	MIN	65	60	60	59	57	55	59	59	59	59	60	61	60	61	62	60	61	60	62	60	60	60	61	60	61	62	60	60	61	60		60.1
WAIAHI LOWER 1054	MAX	77	78	75	76	78	77	78	80	79	78	78	76	77	77	78	77	77	78	75	78	80	78	78	75	77	74	77	75	75	77		77.1
	MIN	60	61	65	62	63	62	59	60	64	65	64	65	64	64	64	62	64	65	62	62	65	64	64	64	61	64	64	62	64	64		63.1
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	82	81	82	81	81	80	83	82	84	84	85	82	83	83	82	83	81	83	65	85	85	82	80	80	82	83	83	81	82	84		82.5
	MIN	66	67	70	65	65	64	64	61	65	67	66	67	66	65	67	65	69	67	66	63	67	67	68	65	64	64	68	64	66	66		65.8
HONOLULU WBFC 703	MAX	86	83	85	85	84	84	86	84	86	86	85	85	85	85	86	86	85	85	86	84	86	85	83	84	85	85	86	85	85	86		85.0
	MIN	73	70	72	71	71	72	71	69	70	72	72	74	73	73	72	72	73	72	71	70	71	72	72	71	71	71	73	72	70	73		71.6
HONOLULU SUBSTA 704	MAX	77	77	79	77	78	77	80	80	80	79	79	78	79	79	77	78	79	78	79	80	79	76	75	76	77	78	79	77	77	80		78.1
	MIN	68	70	69	68	67	69	69	70	70	68	70	70	70	70	69	69	69	68	69	67	68	68	68	69	70	71	71	70	68	70		69.1
KAHUKU 912	MAX	80	79	78			78	78	80	81	82			80	80	80	80	81			80	80	80	79	78			80	80	76	79		79.5
	MIN	69	69	68			68	68	70	72	71			69	70	71	71	70			67	67	70	68	68			70	70	66	68		69.1
KANEOHE MAUKA 781	MAX	78	79	77	77	78	77	74	78	80	81	80	79	77	79	80	79	78	79	80	79	80	78	78	78	77	78	78	78	77	79		78.3
	MIN	70	68	67	68	67	67	68	66	69	70	69	68	69	70	63	67	60	68	67	64	65	68	70	68	69	69	70	69	66	68		67.6
LUALUALEI 804	MAX	64	84	81	84	83	84	81	85	84	85	86	83	85	86	84	83	81	82	86	85	85	84	82	82	82	84	84	83	80	83		83.5
	MIN	70	71	72	72	69	68	69	65	69	72	72	73	70	70	71	67	71	70	72	67	70	70	71	69	71	70	69	70	70	72		70.1
MAKAPUU POINT 724	MAX	76	76	70	75	75	75	73	70	76	77	72	72	72	75	78	70	75	75	71	77	70	75	72	74	74	76	75	70	74	75		73.8
	MIN	63	68	65	58	64	61	66	60	62	69	65	60	63	63	64	65	64	58	65	64	60	65	60	67	66	67	66	65	63	62		63.6
OPAEULA 870	MAX	81	75	74	73	77	77	77	80	82	79	73	82	78	80	79	78	75	77	80	81	78	79	73	73	74	78	75	76	72	77		77.1
	MIN	61	63	64	65	63	63	62	61	61	61	63	63	63	63	63	63	63	61	61	60	60	64	63	63	64	61	65	63	62	64		62.5
PKI WAHIAWA 820.2	MAX	81	75	77	78	78	79	79	81	84	83	82	82	83	80	81	80	79	79	80	83	85	85	77	77	77	79	81	80	76	80		80.0
	MIN	61	65	66	63	63	63	64	59	60	63	63	65	64	63	63	64	65	63	63	62	62	64	64	64	62	63	63	62	62	63		63.0
WAIALUA 847	MAX	82	79	79	80	80	79	80	83	86	85	84	84	79	82	82	81	82	80	82	84	81	83	80	79	78	80	81	80	78	80		81.1
	MIN	61	64	68	68	63	65	63	58	61	61	65	62	64	62	63	62	64	65	64	61	63	66	67	63	64	61	64	61	62	60		63.2
WAIKIKI 717.2	MAX	83	82	81	80	81	81	80	83	85	84	83	83	82	83	82	81	83	82	83	84	86	83		80		82	82	82	80	81		82.2
	MIN	70	69	70	73	68	69	68	66	68	70	77	75	70	69	70	70	68	68	68	65	68	69		65		69	70	70	68	71		69.3
WAIMANALO EXP FARM	MAX	81	80	79	79	78	80	78	80	81	82	82	81	81	81	80	80	80	82	81	83	78	78	78	79	79	78	78	78	78	79		79.7
	MIN	68	69	69	69	68	68	69	70	71	70	69	70	71	70	68	69	69	69	63	62	69	69	69	68	70	69	69	68	68	69		68.6
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ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	77	73	76	78	76	75	78	79	79	77	79	80	78	80	79	78	80	78	79	78	82	81	76	79	78	79	78	78	80	80		78.2
	MIN	69	70	69	68	68	68	69	68	69	69	69	70	70	69	69	68	68	69	69	70	68	68	67	67	66	70	69	68	69	68		68.6
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX		78	71			72	72	74	74	75			73	74	74	72	78			74	74	75	73	68			74	75	74	75		73.8
	MIN		59	64			62	59	59	59	62			64	63	63	60	60			61	61	62	62	61			60	61	60	61		61.1
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	61	55	57	56	63	66	67	68	64	58	59	58	60	60	60	61	59	58	58	59	58	60	54	53	57	58	57	59	57	57		59.2
	MIN	44	46	46	44	45	47	53	44	39	41	43	44	42	40	37	43	39	40	38	45	42	45	44	40	34	39	45	42	40	38		42.3
HALEAKALA SUMMIT 338.4	MAX	50	42	46	47	50	51	54	52	51	53			52	48	51	52	48	47	54	55	57	50	47	44	46	50	51	50	48	48		49.8
	MIN	34	35	35		37	37	40	40	40	36			35	36	35	34	34	36	38	36	34	33	34	34	33	34	35	35	32	36		35.5
HANA AIRPORT 355	MAX	79	78	80	79	79	80	80	81	82	81	81	81	78	79	80	80	82	80	80	80	82	80	79	79	79	80	81	79	80	81		80.0
	MIN	66	68	68	68	68	68	66	64	68	67	66	67	68	69	70	68	70	67	65	69	68	66	66	69	64	64	64	66	67	69		67.1
KAANAPALI AIRPORT	MAX	80		81	80		81	77	78	84	83	84			80	82	81	83	82			81	84	81	78	81	83		82			81.2
	MIN	67		69	68		67	67	64	66	65	66			68	69	68	69	66			66	69	66	67	65	65		69			67.0
KAHULUI WB AP 398	MAX	82	82	82	81	82	83	84	85	86	85	82	81	83	85	84	85	85	84	84	88	85	82	76	82	82	84	82	84	84	83		63.2
	MIN	67	70	70	68	68	70	69	59	65	66	68	69	69	69	69	67	69	68	63	65	66	68	66	66	66	60	70	68	68	66		67.1
KAILUA 446	MAX	74	75	73	73	73	72	75	74	76	76	77	77	77	77	75	75	75	75	75	74	76	76	76	75	75	75	76	72	75	75		75.0
	MIN	63	65	65	65	64	64	65	64	64	66	65	65	65	66	67	65	65	64	65	65	64	64	63	63	62	62	63	64	65	65		64.4
KEAWAKAPU BEACH 260.2	MAX	84	86	89	88	80	85	86	87	86	85	84	82	83	86	84	85	87	87	85	84	86	88	89	83	85	85	87	88	87	86		85.6
	MIN	62	63	63	63	61	61	60	60	63	64	65	64	62	63	61	61	62	63	61	65	65	63	63	66	57	60	65	60	60	58		62.1
KULA SANATORIUM 267	MAX	72	71	72	73	70	69	68	69	70	69	69	69	68	70	70	69	72	70	70	69	70	72	71	70	72	71	70	72	71	70		70.3
	MIN	52	53	54	55	54	51	52	54	54	53	51	52	53	54	55	55	51	52	54	55	58	52	52	53	51	50	51	51	52	54		52.9

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	83	84	86	85	84	84	84	83	83	84	83	83	84	84	84	83	83	85	84	86	85	85	85	84	83	83	84	86	84	84		84.1
	MIN	66	68	67	65	65	64	66	65	66	67	65	65	65	65	66	67	66	66	65	69	68	68	69	64	63	64	69	65	65	65		65.9
WAILUKU 386	MAX	79	77	77			77	78	78	79	80			79	78	78	78	80			78	83	81	79	74			79	79	80	79		78.6
	MIN	68	69	68			67	69	69	71	71			68	69	69	69	67			67	69	68	66	67			67	68	68	69		68.3
• • •																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	78	78	79	79	78	76	77	78	79	79	79	79	79	80	79	79	78	79	77	79	82	80	78	75	73	79	79	77	79	77		78.3
	MIN	63	64	65	65	65	61	61	61	62	63	63	64	64	65	65	65	62	63	63	63	66	65	63	63	61	63	68	62	63	64		63.5
HAWAII VOLCNS NP HQ 54	MAX	67	68	70	64	68	62	59	68	70	68	69	69		65	67	64	60	65	68	69	70	68	62	60		62	68	62	61	61		65.5
	MIN	53	54	53	53	53	50	51	51	52	52	54	54	54	52	53	51	50	51	51	50	56	53	53	50		50	52	49	51	52		52.0
HILO WB AIRPORT 87	MAX	79	81	80	80	80	78	80	83	81	75	81	81	79	80	80	80	80	80	82	83	78	80	80	74	80	80	79	80	80	76		79.7
	MIN	66	66	67	67	66	65	64	64	65	64	66	68	66	68	68	64	66	61	63	63	66	66	68	62	62	65	65	61	66	65		65.1
KAINALIU 73.2	MAX	73	77	79	80	76	76	73	79	77	79	79	78	77	74	76	74	77	75	77	78	79	80	75	79	77	76	78	75	77	77		76.9
	MIN	60	61	62	63	59	62	60	59	61	62	64	61	61	59	61	61	62	60	60	61	60	63	63	62	60	59	64	61	59	60		61.0
KAMUELA 192.2	MAX	72	61	70			71	68	79	76	72			73	71	70	70	70			74	78	75	78	72	69		70	68	68	66		71.3
	MIN	56	56	56			57	56	52	55	60			60	58	59	58	59			54	59	60	58	57	56		60	60	58	58		57.5
KAMUELA AIRPORT 191	MAX	70	70	71	73	70	69	71	69	73	70	74	73	72	72	71	72	70	73	72	72	71	74	70	68	68	71	72	68	71	68		70.9
	MIN	49	51		41	51		52	48	48	52	49	49	52	52	46	47		48	54	50	47			55	51	55	55	46		48		49.8
KEAAU 92	MAX	80	79	81	80	81	79	79	80	80	80	78	81	80	78	80	81	79	80	79	80	81	78	79	79	75	79	81	78	78	78		79.4
	MIN	65	64	64	66	64	63	63	63	64	64	65	65	65	64	65	64	64	61	62	64	63	66	65	64	62	64	66	61	62	64		63.9
KEALAKEKUA 26.2	MAX	75	78	79	81	78	77	75	79	77	81	79	78	79	76	77	74	77	76	77	77	79	79	77	77	76	78	80	76	77	78		77.6
	MIN	59	62	62	64	60	62	61	60	62	62	63	61	62	62	61	62	61	60	60	62	61	63	63	63	61	61	63	61	60	60		61.5
KOHALA MISSION 175.1	MAX	77	77	76	75	72	74	74	75	78	78	78	78	78	78	78	78	76	77	72	78	80	78	76	74	76	78	78	76	78	77		76.6
	MIN	65	66	66	65	65	63	65	64	64	64	66	65	65	66	66	65	64	65	64	64	66	66	65	65	63	63	65	64	64	66		64.8
KONA AIRPORT 68.3	MAX	78	80	81	82	82	82	82			80	80	83	82	82	82	80	81	81	83	82	82	83	84	80	84	83	83	85	80	85		81.9
	MIN	65	68	66	66	60	62	60			63	65	62	63	64	68	64	64	65	62	63	62	63	72	63	74	62	61	62	65	63		64.2
KULANI CAMP 79	MAX	61	61	63	61	63	58	58	63	64	61	63	65	64	60	59	58	55	59	62	60	66	58	55	55	58	61	62	58	59	58		60.3
	MIN	49	36	50	49	47	45	44	42	45	44	51	50	50	35	49	48	43	47	43	32	52	49	35	48	48	46	45	43	41	46		45.1
MAUNA LOA SLOPE 085	MAX	52	52	51	52	54	54	56	50	52	47	43	41	45	45	49	43	44	49	49	47	46	48	46	45	44	47	46	48	49	49		48.1
	MIN	35	30	32	31	33	36	38	32	35	31	33	31	31	30	29	31	28	31	32	28	30	31	32	32	30	28	32	28	28	30		31.3
MOUNTAIN VIEW 91	MAX	74	75	76	76	76	76	72	74	76	75	76	76	76	71	73	74	72	74	74	74	76	71	76	70	76	76	76	70	71	71		74.1
	MIN	61	60	59	59	59	59	58	59	59	58	59	59	59	61	62	61	59	55	55	55	58	61	61	59	57	57	57	55	57	59		58.6
NAALEHU 14	MAX	82	82	84	83	82	82	76	80	81	82	82	81	81	81	80	81	79	79	80	80	81	78	79	80	80	80	80	78	78	78		80.3
	MIN	64	68	69	68	65	65	67	65	67	66	66	63	63	66	68	66	67	67	64	64	66	67	66	68	68	62	62	64	66	68		65.8
OOKALA 223	MAX	78	77	79	78	77	77	75	78	79	78	73	78	78	78	79	78	75	77	78	79	81	78	77	73	75	79	77	75	78	76		77.3
	MIN	64	65	65	66	66	65	64	65	66	65	65	65	65	67	65	64	64	66	67	65	64	65	64	63	63	64	66	64	63	63		64.8
OPIHIHALE 2 24.1	MAX	73	80	79	77	75	74	77	75	79	80	75	77	76	76	76	79	77	76	73	80	81	74	74	76	77	76	75	76	76	76		76.5
	MIN	59	59	60	58	58	58	56	58	58	59	59	61	59	59	60	61	60	59	59	59	60	60	62	57	59	60	56	57	58	58		58.9
PAHALA 21	MAX	81	82	84	81	82	79	78	80	80	80	80	81	78	79	80	78	79	78	80	80	82	77	80	78	79	83	79	77	80	78		79.8
	MIN	61	62	62	63	62	62	63	61	62	62	63	63	63	61	62	64	64	57	61	63	64	62	64	64	59	63	64	60	61	63		62.2
PUAKO 95.1	MAX	87	86	86	87	85	86	81	84	84	84	87	84	85	87	86	87	85	86	87	84	85	86	85	86	86	89	85	85	86	88		85.6
	MIN	72	71	73	70	67	71	67	66	67	68	70	70	71	72	72	73	71	71	69	66	68	72	72	72	69	69	72	69	70	70		70.0
UPOLU POINT USCG 159.2	MAX	80	78	80	79	80	79	78	81	80	80	80	86	82	81	82	80	81	81	82	83	85	83	81	78	80	81	78	80	82	81		80.7
	MIN	67	68	69	63	67	66	67	65	66	68	68	68	68	69	67	67	66	68	68	68	68	69	61	64	66	68	66	66	66	61		66.8

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
• • •																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.17	.32	.21	.25	.34	.30	.31	.27	.27	.21	.29	.30	.23	.30	.30	.30	.30	.32	.30	.24	.30	.27	.30	.42	.30	.35	.27	.38	.24	.24		8.60
	WIND	34	41	37	40	44	42	31	30	26	23	26	27	31	42	41	41	59	48	33	23	32	48	68	70	47	37	41	50	50	32		1194
	MAX	84	89	87	86	90	86	89	93	92	91	90	89	87	91	90	90	89	90	90	86	83	87	86	87	87	90	86	87	88	89		88.3
	MIN	65	66	67	64	64	64	64	64	65	65	65	65	64	65	65	65	64	64	65	63	68	65	64	62	62	62	64	63	64	64		64.4

See Reference Notes Following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		OBSERVER
ISLAND OF KAUAI														
ALEXANDER RESV. 983		0140	02	KOLOA	2	21 57	159 32	1610				C		HCBRYDE SUGAR CO.
ANAHOLA 1114	A	0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C		LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A				MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A				MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1		0465	02	KAWAIHAU	2	22 06	159 22	350				C		LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A				MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A				LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A				GROVE FARM CO LTD
HAHALEI TUNNEL 1053	A	1170	01	KAWAIHAU	1	22 05	159 28	1218					S	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A				KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A				LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690					S	HC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A	2974	01	HANALEI	1	22 11	159 26	380		8A				KILAUEA SUG PLTN CO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C		KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHOU	1	22 08	159 23	830		7A				LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C		LIHUE PLTN CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A				LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C		KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	1	22 13	159 25	317		6A		C		KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4566	01	HANALEI	1	22 11	159 24	415		7A				KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4568	01	HANALEI	1	22 14	159 24	180	8A	8A				U S COAST GUARD
KITANO 1037.1		4650	03	WAIMEA	3	22 02	159 41	2150				C		KEKAHA SUGAR CO
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A				KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A				GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A				GROVE FARM CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A				KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A				MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		T		HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A				LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	T	J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1		5765	02	KOLOA	2	21 52	159 27	52	8A	8A				U S COAST GUARD
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A				OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A				KEKAHA SUGAK CO LTD
H+M 1001		6097	02	KOLOA	2	21 55	159 28	300				T		GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		MID			S	U S GEO SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A				LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148		MID			S	U. S. GEO. SURVEY
MIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A				KEKAHA SUGAH CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A				LIHUE PLTN CO LTD
H WAILUA RIVER 1055	A	6893	02	KIHUE	2	22 04	159 26	650					S	LIHUE PLTN CO LTD
PH WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		T		HC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		T		PRINCEVILLE PANCH
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		7A				KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A				GROVE FARM CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A				GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	02	LIHUE	2	22 04	159 27	740				T		LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		T		MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100						MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	565	6A	6A				LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		8A				LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A				KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A				LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20		8A				KEKAHA SUGAR CO.
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A				MC BRYDE SUG CO LTD
ISLAND OF OAHU														
AHUIMAHU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C		DOM MITCHELL
AIEA FIELD 625 761	A	0111	03	EWA	3	21 25	157 57	455		7A				WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A				BOARD OF WTR SUPPLY
CAMP 84 607	A	0300	03	EWA	3	21 26	158 04	760		6A		C		DEL MONTE CORPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P				BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A				H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C		J.L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9A	7A				EWA PLANTATION CO
HALAWA SHAFT 77192		0964	02	HONOLULU	2	21 23	157 54	170				C		BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274				C		WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220		VAR		C		H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A			U S COAST & GEODETIC
*HONOLULU WBFC 703	R	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C		ESSA-WEATHER BUREAU
H S P A EXP STA 707		2146	02	HONOLULU	2	21 18	157 50	50		8A				H S P A EXP STATION
KAALAKEI 724.6		2269	02	HONOLULU	2	21 18	157 43	10				C		MRS. MILLIE ZAPATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800				C		WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C		KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C		KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910		MID				BOARD OF WTR SUPPLY
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A				STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A				KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	01	KOOLAULOA	1	21 36	157 54	10				C		GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A				WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WAIALUA	5	21 34	157 59	1180						WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A				C & F OFFICER HEDG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		T		USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 08	1500		VAR				U S NAVY
LULUKU		5655	01	KOOLAUPOKO	1	21 24	157 49	240				T		MILNOR LOM
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A				LUNALILO HOME
MAKAHA KAI 796	A	5766	04	WAIANAE	4	21 28	158 13	25		7A				CAPITAL INVEST CO
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		T		CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	538	8A	8A				U S COAST GUARD
MANANA 754.2		6089	03	OAHU	3	21 25	157 58	240				T		CLARENCE LEE
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A				MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650		MID				BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1	21 21	157 46	410				C		EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4025				T		FEDERAL AVIATION ADM
NUUANU PES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MID				BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		VAR				BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		T		WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995		MID				BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640		MID				BOARD OF WTR SUPPLY
PEARL CITY TERCE 754.1		7933	03	EWA	3	21 25	157 58	240				T		CLOSED 31670
PORTLOCK ROAD 724.4		8126	02	HONOLULU	2	21 17	157 43	6		7A				MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		T		PINEAPPLE RESEARCH INST
PUNALUU 884	A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A				KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	1	21 39	158 02	900				T		JACK N. WHEELER
ST STEPHENS SEM 788		8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A				REV R CULLINAN
TANTALUS PEAK 780		8730	02	HONOLULU	2	21 20	157 49	2000				T		BOARD OF WATER SUPPLY
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A				R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A				DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		T		WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		T		WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A				SPENCER TINKER
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		T		WAIALUA SUGAR CO. INC.
WAIANAE 798	A	9231	04	WAIANAE	4	21 27	158 11	10		8A				CAPITAL INVEST CO
WAIANAE MAUKA 803	A	9238	04	WAIANAE	4	21 29	158 09	1575						CAPITAL INVEST CO
WAIAWA 836	A	9261	03	EWA	3	21 28	157 56	800						WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760						WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	RA	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180				T		WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A				WAIMANALO EXP FARM
WAIMEA 892	A	9593	05	WAIALUA	5	21 38	158 04	330		7A		T		WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	9738	03	EWA	3	21 23	158 01	59		8A				OAHU SUGAR CO
WILHELMINA RISE 721		9980	02	HONOLULU	2	21 18	157 47	1100		MID				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI														
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6		3046	01	MOLOKAI	1	21 04	156 52	60				T		W.J. CARSTEN
KAUNAKAKAI 536	A	3541	01	MOLOKAI	1	21 06	157 01	12		6A				MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1	21 06	157 01	70				T		MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560						MOLOKAI RANCH, LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		T		DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A				H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		T		LIBBY MCNEILL & LIBBY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUUOHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		T		PUUOHOKU RANCH
ISLAND OF MOLOKAI														
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550				C		MOLOKAI RANCH
ISLAND OF LANAI														
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650				C		DOLE COMPANY
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C		DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C		DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370				C		ST. DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 52	156 55	1430						DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150				C		DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040						DOLE COMPANY
ISLAND OF MAUI														
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060		VAR				ULUPALAKUA RANCH
FIELD 46 474		0541	04	LAHAINA	4	20 59	156 38	1050				C		MAUI PINEAPPLE CO.
HAELAAU 477		0790	04	LAHAINA	4	20 57	156 36	2980					S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 474	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A				HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C		LKHEED SP & MSLE DIV
HALEMAKU 492.2		1016	02	MAKAWAO	1	20 55	156 17	690				C		PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A				MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM & SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	120		8A		C		HARPY HASEGAWA
HANA AIRPORT 355		1125	01	HANA	1	20 48	156 01	61	11A	11A				HAWAIIAN AIRLINES
HANAHULI 261		1148	01	HANA	1	20 41	156 01	325		7A				KOALI RANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930						HALEAKALA NATL PARK RGS
HONOKOHAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870						MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A				MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494		1914	04	LAHAINA	4	21 01	156 38	125					S	MAUI LAND-PINEAPPLE CO
HONOMAHU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280						HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	03	WAILUKU	3	20 53	156 33	1100				T		STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A				AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	4	20 59	156 33	650				C		EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 38	2000						PIONEER MILL CO LTD
KAHULUI WB AP 398	R	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		T	J	U S WEATHER BUREAU
KAILIILI 436	A	2630	01	MAKAWAO	1	20 51	156 16	2520						E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A				E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 38	1585						PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	2	20 39	156 08	1020				T		KAUPO RANCH
KEAHUA 410		3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM & SUG CO
KEANAE 346	A	4091	01	HANA	1	20 50	156 10	980						E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A			S	A. L. CORELL
KIHEI 311		4469	03	WAILUKU	3	20 47	156 27	90		7A		T		HAWAIIAN COM & SUG CO
KIPAHULU 258		4634	01	HANA	1	20 39	156 04	260		7A				KIPAHULU CATTLE COMPANY
KUKUI 380		4887	04	LAHAINA	4	20 54	156 35	5788					S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A		T		KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		T		PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR				PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A				PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240						E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A				PIONEER MILL CO LTD
MOKUPEA 475		6521	04	LAHAINA	4	20 59	156 37	1290					S	MAUI LAND-PINEAPPLE CO
NAKALELE -FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340		VAR				MAUI LAND-PINEAPPLE CO
OLIHOA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR				MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P				PIONEER MILL CO.
OLOWALU GULCH 377	A	7066	04	LAHAINA	4	20 51	156 36	800						PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	1	20 49	156 07	1260		6A		T		E MAUI IRR CO LTD
PAIA 406		7506	01	WAILUKU	1	20 55	156 23	170		6A				HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570						KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR				STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A	8336	01	HANA	1	20 50	156 13	2980						E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500						PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A				HAWAIIAN COM & SUG CO
PUU PAKI 352	A	8553	01	HANA	1	20 46	156 03	2160					S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A				HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR				KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230						HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	4	20 48	156 35	75		7A				PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	2	20 39	156 24	1900		8A		T		ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	580		8A				PIONEER MILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A				WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	1	20 52	156 12	1200						E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		T		MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A				WAILUKU SUGAR CO
WAILUA IKI 348	A	9460	01	HANA	1	20 48	156 09	2630					S	EAST MAUI IRRIGATION CO
WAILUKU 386		9484	03	WAILUKU	3	20 54	156 30	180	7A	7A				WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A	9765	02	HANA	2	20 38	156 12	220						HALEAKALA RANCH CO
ISLAND OF HAWAII														
AHUA UMI 75	A	0040	05	N KONA	5	19 38	155 47	5220						GREENWELL RANCH
AWINI 182.1	A	0190	01	N KOHALA	1	20 10	155 43	1870						KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A	0450	01	S KOHALA	1	20 07	155 43	4240						KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		T		HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A				PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648						HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770						KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220						STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C		HAWAII NAT PARK
HAWI 168	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		T		KOHALA SUGAR CO
HILO COUNTRY CLUB 8616		1487	02	HAWAII	2	19 41	155 10	1520		VAR		T		HILO COUNTRY CLUB
HILO WB AIRPORT 87	R	1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	T	J	U S WEATHER BUREAU
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220						STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A				VARIOUS RANCH HANDS
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A				CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A				PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A	1864	01	N KOHALA	1	20 09	155 44	800		7A				KOHALA DITCH CO LTD
HONOMU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A		C		PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250						STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190						STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A				HUEHUE RANCH
KAALA IKI 12	A	2249	03	KAU	3	19 08	155 34	1340		7A				HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1340		8A				CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4		2512	03	KAU	3	19 08	155 46	3700				C		RUSSELL P. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A				KONA EXPERIMENT STA
KALAPANA NO 1 67.8		2894	02	S HILO	2	19 20	155 02	10		VAR				HAWAII VOLCANOES NAT PK
KAMADA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375						HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A				PARKER RANCH
KAMUELA AIRPORT 191		3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A				HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A				HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3369	02	PUNA	2	19 30	154 52	290		VAR				BOARD OF WATER SUPPLY
KAUMANA 88.1		3510	02	S HILO	2	19 41	155 09	1123		6A		C		SHIGEO MASUYA
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080						HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	280	8A	8A				PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	03	KAU	3	19 14	155 29	1700				C		HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C		MISS AMY GREENWELL
KEHENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840						KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A	4625	03	KAU	3	19 04	155 38	1925						STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490						MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		8A				KOHALA SUGAR CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A				KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A				K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720						HONOKAA SUGAR CO
KONA AIRPORT 68.3		4764	04	N KONA	4	19 39	156 01	17	8A	8A		C		HAWAIIAN AIRLINES
KONA VILLAGE 93.8		4765	04	N KONA	4	19 50	155 59	20		8A				KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1	20 02	155 21	840		6A				HAMAKUA MILL CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A				HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	1	20 08	155 34	300		6A				HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A				ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300				C		MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 20	5735						ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01	S KOHALA	1	20 01	155 41	2615				C		STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A				KONA EXPERIMENT STATION
MANUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A				STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103		8A				MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID				MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4	19 37	155 58	475		8A				KONA EXPERIMENT STA
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1	20 06	155 50	1380		VAR				KAHUA RANCH

STATION INDEX

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE †	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
HAUULA 18	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 2A	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 79	A 6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 123	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
ORIMMAGE 2 29.1	7165	04	S KONA	4	19 16	155 53	1270	7A	7A			HISS C LEONARD
ORCHID AND EST 91.5	A 7183	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 21	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAUILO 22	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAMALA 71	7421	03	KAU	3	19 12	155 29	870	8A	8A			HAWAIIAN AGR CO
PAMOA 65	7457	02	PUNA	2	19 30	154 57	670		8A			PUNA SUGAR COMPANY
PAHAO 37	A 7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO. INC.
PAPAIHOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			HAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			HAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 84	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
PUHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		E	STATE DIVISION OF PARKS
WAIAKO 95	A 8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. RAPP

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE †	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
PUU KIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUHAU 197	A 8548	06	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	3340		6A			DON WINTERS
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		E	OILLINGHAM RANCH INC
SADDLE ROAD I 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500				E	HAWAIIAN RANCH COMPANY
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1030		7A			SHINICHI KANESHIRO
WAIKANDNDULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830		7A		E	KAHUA RANCH
ISLAND OF HAWAII												
NEW STATIONS												
ISLAND OF HAWAII												
HILO COUNTRY CLUB 8616	1487	02	HAWAII	2	19 41	155 10	1520		VAR		E	HILO COUNTRY CLUB

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\- And also on an earlier date or dates

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

Wi Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building

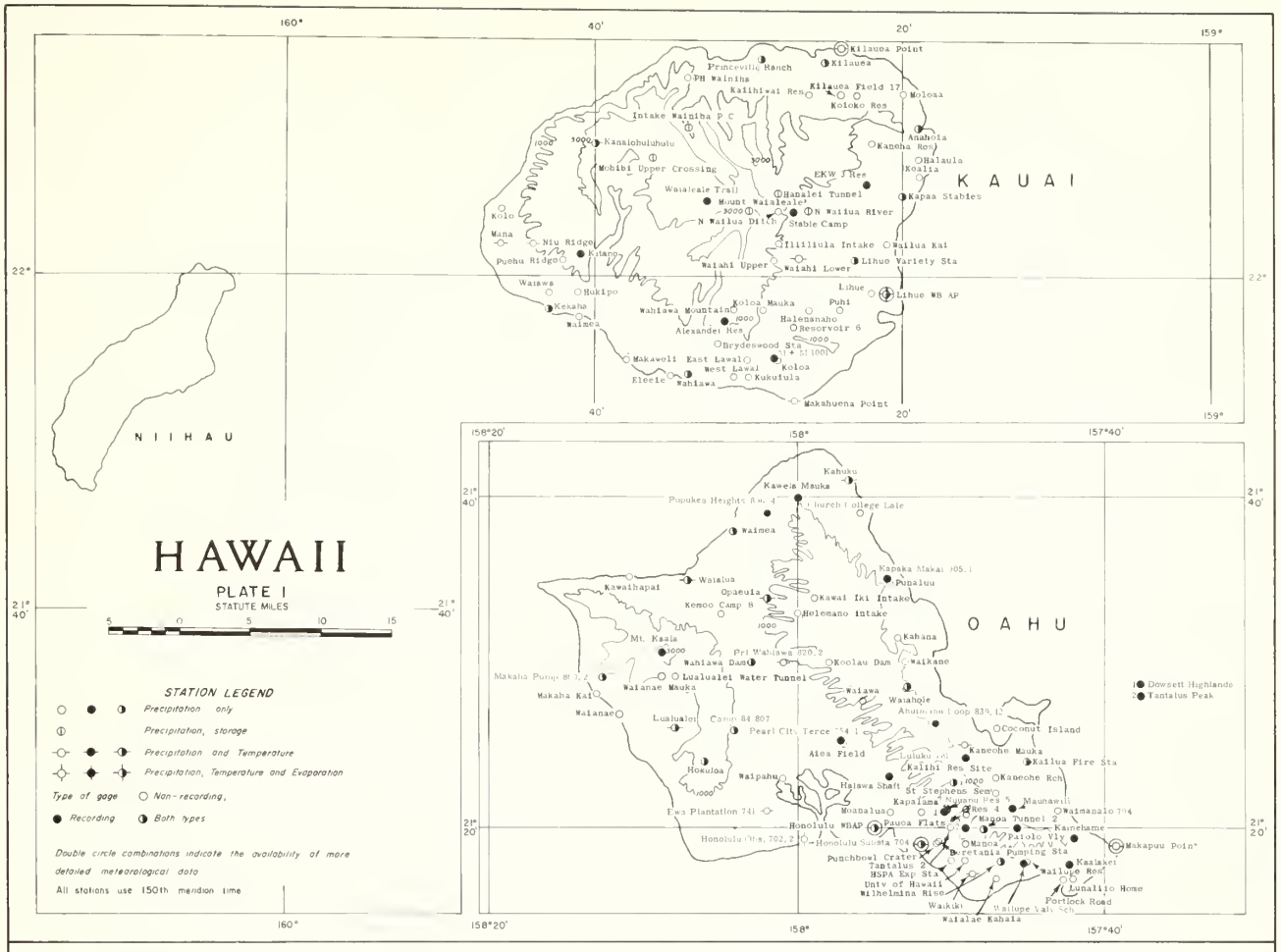
Stations appearing in the table with no data were either missing or received too late to be included in this issue.

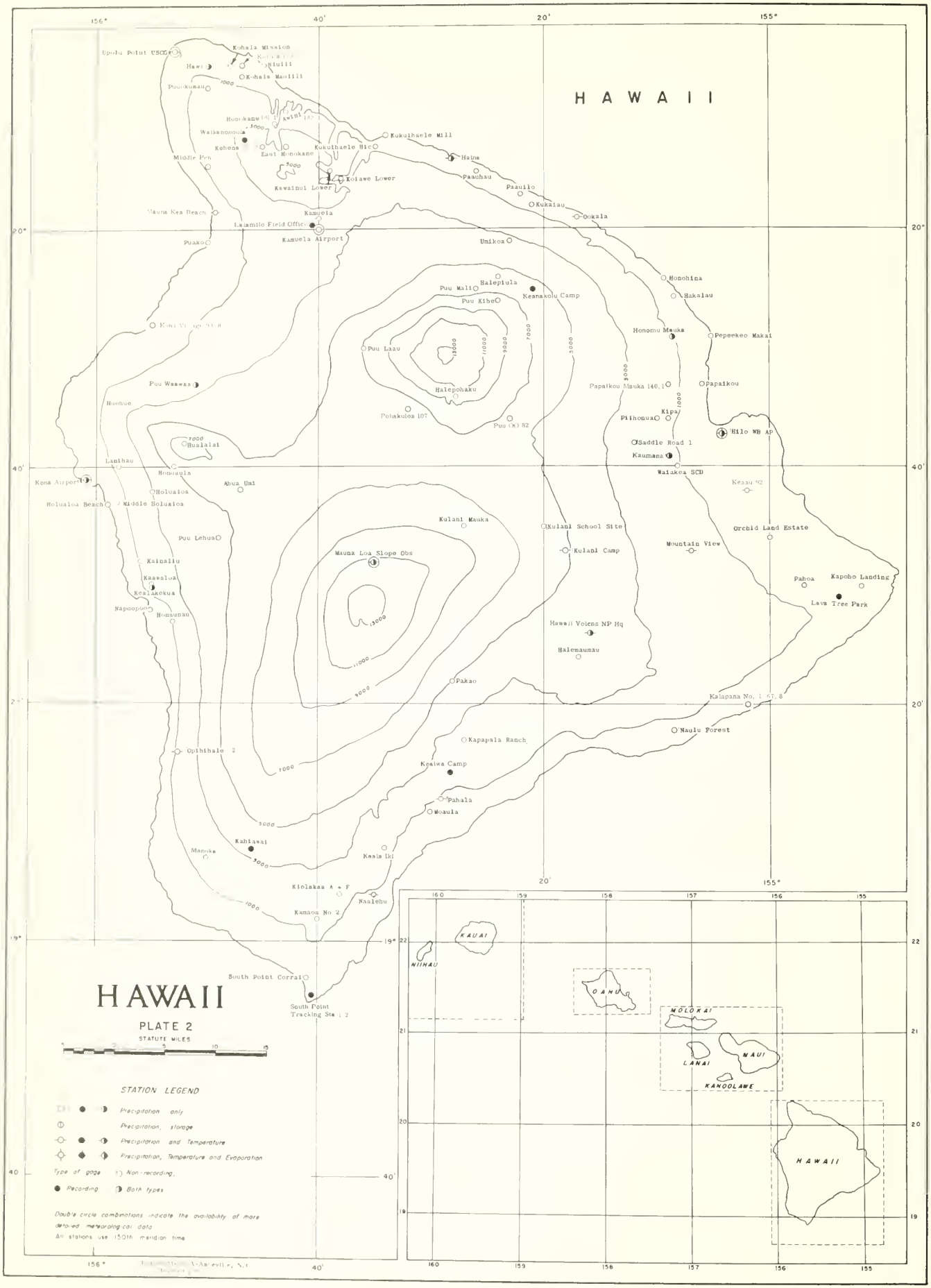
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE- 7/31/70-890


HAWAII
PLATE I
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
Kilauea Point
Princeville Ranch
PH Wainiha
Kilauea
Kilauea Field 17
Koloko Res
Moloaa
Kalihiwai Res
Intake Wainiha P C
Kaniohuluhulu
Anahola
Kaneha Res
Halaula
Koalia
Mobibi Upper Crossing
EKW 3 Res
Waialeale Trail
Mount Waialeale
Hanalei Tunnel
Kapaa Stables
N Waiiua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Kitano
Puehu Ridge
Lihiliula Intake
Wailua Kai
Waiahi Upper
Waiahi Lower
Lihue Variety Sta
Waiawa
Hukipo
Kekaha
Waimea
Wahiawa Mountain
Koloa Mauka
Puhi
Lihue WB AP
Halenanaho
Reservoir 6
Alexander Res
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleele
Kukuiula
Wahiawa
Makahuena Point
Kahuku
Kawela Mauka
Pupukea Heights Res. 4
Church College Lale
Waimea
Kapaka Makai 105.1
Punaluu
Kawailiapai
Waialua
Opaeula
Kawai Iki Intake
Kemoo Camp 8
Helemano intake
Mt. Kaala
Kahana
Pri Wahiawa 820.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 81
Lualualei Water Tunnel
Waianae Mauka
Waiawa
Waiahole
Makaha Kai
Waianae
Luahuloi
Comm 84 807
Pearl City Terce 704 1
Coconut Island
Aiea Field
Kaneohe Mauka
Kailua Fire Sta
Hokuloa
Waipahu
Kalihi Res Site
Kaneohe Rch
Halawa Shaft
St Stephens Sem
Maunawili
Ewa Plantation 741
Moanalua
Honolulu WBAP
Puuoa Flats
Waimanalo 704
Honolulu Obs. 702.2
Honolulu Substa 704
Punchbowl Crater
Tantalus 2
HSPA Exp Sta
Untv of Hawaii
Wilhelmina Rise
Waikiki
Wailupe Valy Sch
Waialae Kahala
Portlock Road
Lunalilio Home
Makapuu Point
Dowsett Highlands
Tantalus Peak
MOLOKAI
Keoneiele Pens
Kalaupapa
Molokai AP
Kualapuu
Maunaloa 511
Puuhoku Ranch
Waikolu
Kaunakakai Mauka
Kaunakakai
Mapulebu
Kamalo Mauka
LANAI
Kanepuu 690
Mahana
Lanai City
Lanaihale
Waiakeakua
Kaumalapau Harbor
Maunaa 676
Nakalele Fld 60
Honolua Fld 49
Honokohua
Field 46
Alokupea 475
Honokohau
Kahakuloa Mauka 482.3
Haelaau
Waihee Valley
Mahinahina
Puu Kukui Makai
Kahoma Intake
Waiehu Camp
Kahului WB AP
Wahikuli
Kukui
Iao Needle
Wailuku
Lahaina
Kauaula Intake
Olowalu
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Waikapu
Puunene
Pohakea Bridge
Ukumehame
Kuhei
Twin Gates
Keawakapu Beach
KAHOOLAWE
MAUI
Paia
Pauwela
Halehaku 492.2
Hamakuapoko
Spreckelsville
Kailua
Lupi Upper
Waikamoi
Kealia
Kalialimaile
Haleakala B E S
Kalilili
Haleakala Ranch
Keanae
Puohokamoa 2
Waikamoi Dam
Paakea
Olinda
Kula Heights
Ukulele
Hana AP
Wailua Iki
Puu Paki
Honomanu Gulch
Haleakala RS
Holua Cabin 259.5
Hana
Haleakala Summit
Kula Sanatorium
Polipoli Spgs
Pailleihulu
Hanahuli
Kaupo Ranch House
Ulupalakua Ranch
Kipahulu
Auwahi
Waiopai Rch
USCOMM-ESSA-Asheville, N.C.
Revised 2-69


HAWAII
Upolu Point USCG
Kohala Mission
Hawi
Niulii
Kohala Mauka
Puukumau
Honokane
Awini
Waikanonoula
Kehena
East Honokane
Kukuihaele Mill
Kukuihaele Hic
Middle Pen
Koiawe Lower
Kawainui Lower
Haina
Paauhau
Paauilo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Halepiula
Puu Mali
Keanakolu Camp
Puu Kihe
Honohina
Hakalau
Honomu Mauka
Pepeekeo Makai
Puu Laau
Halepohaku
Papaikou Mauka 140, 1
Papaikou
Puu Waawaa
Hawhue
Pohakuloa 107
Puu OO 82
Pihonua
Kipu
Hilo WB AP
Saddle Road 1
Kaumana
Hualalai
Lanihau
Honuaula
Waiakea SCD
Kona Airport
Holualoa
Ahua Umi
Keaau 92
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Mauna Loa Slope Obs
Kulani Camp
Mountain View
Kainaliu
Kaawaloa
Kealakekua
Napoopoo
Honaunau
Pahoa
Kapoho Landing
Lava Tree Park
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 67, 8
Naulu Forest
Opihihale 2
Kapapala Ranch
Kaalwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kaala Ikl
Kiolakaa A + F
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1 2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
PLATE 2
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
MAY 1970
Volume 66 No. 5

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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days: Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days: .10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																								
ANAHOLA 1114	A														3.30	.35			.0	0				
KANALOHULUHULU 1075		71.5	52.2	61.9		76	7	41	29+		0	0	0	0	1.89		.96	3	.0	0		6	1	0
KAPAA STABLES 1104	A														4.28				.0	0				
KILAUEA FIELD 17 1135	A														6.51	- 1.08			.0	0				
KILAUEA POINT 1133		78.8	70.5	74.7		84	23	67	23+		0	0	0	0	4.38		1.50	2	.0	0		11	2	1
KOLOA 936	A														6.52	2.17			.0	0				
LIHUE W8 AP 1020.1	R	81.5	72.8	77.2	2.7	84	17	68	23		0	0	0	0	5.85	3.26	2.05	2	.0	0		7	3	3
MANA 1026		86.1	64.9	75.5	.8	89	11	58	20		0	0	0	0	1.57	.67	1.07	3	.0	0		2	1	1
N WAILUA DITCH 1051	A														15.66				.0	0				
PH WAINIHA 1115															6.11	- 3.05	1.50	1	.0	0			3	1
PUEHU RIDGE 1040															2.40		1.73	3	.0	0		3	1	1
WAHIAWA 930	A														4.20	2.70			.0	0				
WAIAHI LOWER 1054		79.4	65.2	72.3		82	31+	59	29		0	0	0	0	11.15		2.95	3	.0	0		21	6	2
WAIMEA 947															2.43	1.58	1.75	3	.0	0		2	2	1
ISLAND				72.3											5.45				.0					
* * * ISLAND OF OAHU																								
HONOLULU 08SERV 702.2															.12		.06	30	.0	0		0	0	0
HONOLULU W8FC 703	R	86.8	74.0	80.4	4.5	89	30+	70	24		0	0	0	0	.21	- .78	.10	4	.0	0		1	0	0
KAHUKU 912	A	M	M	M		85	25	66	25		0	0	0	0	3.60	1.44			.0	0				
KANEOHE MAUKA 781		79.7	69.7	74.7	.5	84	24	66	22+		0	0	0	0	6.60	2.05	2.38	2	.0	0		15	3	1
KOOLAU OAM 833															9.06	2.95	1.62	10	.0	0		20	5	2
LUALUALEI 804		85.3	71.3	78.3		88	31	66	25		0	0	0	0	.77				.0	0			0	0
MAKAPUU POINT 724		77.1	66.4	71.8		82	24	64	10+		0	0	0	0	1.06	.03	.77	4	.0	0		2	1	0
NUUANU RES 4 783															7.78	- 2.05			.0	0				
OPAEULA 870	A	79.9	64.7	72.3	2.5	85	24	60	24		0	0	0	0	2.82	- .46			.0	0				0
PALOLO VALLEY 718															7.54	- 4.58	1.00	10	.0	0		20	5	1
PRI WAHIAWA 820.2	A	82.5M	64.3M	73.4M		86	29+	60	29+		0	0	0	0	1.11				.0	0			0	0
PUNALUU 884	A														9.20				.0	0				
WAHIAWA OAM 863	A														1.52				.0	0				0
WAIAHOLE 837	A														13.08	.93			.0	0				
WAIALUA 847	A	84.1	64.9	74.5	1.1	88	30+	60	3		0	0	0	0	.45	- .65	.08	11	.0	0		0	0	0
WAIKIKI 717.2		M	M	M		88	25	64	24		0	0	0	0	.34		.27	4	.0	0		1	0	0
WAIMANALO EXP FARM		81.9	71.0	76.5		84	31+	65	23		0	0	0	0	1.17		.37	3	.0	0		4	0	0
WAIPAHU 750	A														.20	- 1.00			.0	0			0	0
ISLAND				75.2											3.70				.0					
* * * ISLAND OF MOLOKAI																								
KUALAPUU 534	A														.08	- 1.50	.02	15+	.0	0		0	0	0
MAPULEHU 542															2.71	.00	1.40	22	.0	0		5	1	1
MAUNALOA 511	A														.11	- 1.36	.04	26	.0	0		0	0	0
MOLOKAI AP 524		82.0	69.9	76.0		84	31+	66	5		0	0	0	0	.03		.02	1	.0	0		0	0	0
ISLAND				76.0											.73				.0					
* * * ISLAND OF LANAI																								
LANAI CITY 672	A	M	M	M		78	25+	52	25		0	0	0	0	.69	- 1.98			.0	0			0	0
ISLAND															.69				.0					
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														2.14	- 2.26	.67	26	.0	0		6	1	0
HALEAKALA RS 338		63.5	45.2	54.4		75	13	37	24		0	0	0	0	3.01		.76	2	.0	0		6	3	0
HANA AIRPORT 355		81.9M	69.2M	75.6M		84	17	66	24+		0	0	0	0	3.17		.35	24	.0	0		13	0	0
HONOKOHUA 493	A														1.69	- .57	.37	26	.0	0			0	0
KAANAPALI AIRPORT		M	M	M							0	0	0	0					.0	0				
KAHULUI W8 AP 398	R	86.6	67.2	76.9	1.6	90	2	62	24		1	0	0	0	.02	- .67	.02	26	.0	0		0	0	0
KAILUA 446		76.3	66.0	71.2	.8	80	25	63	29+		0	0	0	0	8.01	- 1.91	.81	2	.0	0		20	8	0
KEANAE 346	A														18.40	- 2.70			.0	0				
KIPAHULU 258															3.98	- 3.96	.60	2	.0	0		15	2	0
KULA SANATORIUM 267		71.7	55.2	63.5	.0	74	11	51	21+		0	0	0	0	.48	- 1.62	.19	2	.0	0		1	0	0
LAHAINA 361		85.6	67.9	76.8		90	14	65	20		1	0	0	0	.12	- .23	.07	26	.0	0		0	0	0
PAIA 406															.56	- 1.55	.21	26	.0	0		2	0	0
WAILUKU 386		80.9M	69.7M	75.3M	.9	83	25+	66	25		0	0	0	0	.06	- 1.2	.0*	26	.0	0		0	[illegible]	0
ISLAND				70.5											3.47				.0					
* * * ISLAND OF HAWAII																								
HAINA 214		79.4	65.2	72.3	.9	83	7	63	13+		0	0	0	0	9.14	4.22	2.95	1	.0	0		14	[illegible]	1
HAWAII VOLCNS NP HQ 54		69.0M	54.0M	61.5M	.9	74	15+	50	22		0	0	0	0	15.49	9.42	3.67	2	.0	0				
HILO W8 AIRPORT 87	R	81.3	66.0	73.7	.7	86	14	63	24		0	0	0	0	20.26	10.93	6.40	26	.0	0		19	11	6
HUEHUE 92.1	A														6.29	1.62	1.83	10	.0	0				1
KAINALIU 73.2		78.2	63.4	70.8		80	29+	61	24+		0	0	0	0	2.05	- 5.65	.37	30	.0	0		8	[illegible]	0

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature									No. of Days				Precipitation							No. of Days		
										Max.		Min.						Snow, Sleet					
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191	73.1	54.4	63.8		78	4	45	19		0	0	0	0	1.01		.25	15	.0	0		5	0	0
KEAAU 92	80.7	65.6	73.2	.7	84	25+	64	22+		0	0	0	0	27.13	17.25	4.62	1	.0	0		22	14	5
KEALAKEKUA 26.2	77.5	64.1	70.8		79	29+	62	25+		0	0	0	0	2.69		.56	17	.0	0		9	1	0
KONA AIRPORT 68.3	82.2M	67.0M	74.6M		85	31	64	31+		0	0	0	0					.0	0				
KUKUIHAELE HIC 199														8.59	1.88	2.13	1	.0	0		16	7	1
KULANI CAMP 79	63.0	47.0	55.0		69	7	38	11		0	0	0	0	19.17		4.31	28	.0	0		21	10	7
PAHALA 21	79.3	63.2	71.3	.3	83	31	61	28+		0	0	0	0	6.95	4.63	4.52	2	.0	0		7	3	1
POHAKULOA 107 A														.41				.0	0				
PUAKO 95.1 A	86.1	70.9	78.5		89	27+	68	24+		0	0	0	0	.12		.06	16	.0	0		0	0	0
PUU WAAWAA 94.1 A														2.76	.03	.75	29	.0	0			1	0
UMIKOA 118														5.05	- .01	1.52	27	.0	0			3	2
WAIAKEA SCD 88.2														35.99		5.01	1	.0	0				
ISLAND			69.6											10.19				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 95° ON THE 24TH AT MAKAHUENA POINT 940.1, OAHU

LOWEST TEMPERATURE: 31° ON THE 18+ AT MAUNA LOA SLOPE 08S, HAWAII

GREATEST TOTAL PRECIPITATION: 40.45 AT KIPA 89.2, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 7 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.68 ON THE 1ST AT HONOMU MAUKA 138, HAWAII

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
MAY 1970

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF KAUAI																																
ANAHOLA 1114	A	3.30	.02	*	*	2.10	.35				*	*	.10		.02		.02	*	*	.05			.04	.19	*	*	.30	.09		.02	*	*	*
BRYDESWOOD STA 985	A	5.34	.22	*	*	3.29	.11	.02	T	.05	*	*	.56	.06	.20	.02	.05	*	*	.07	.04	.03	.05	.05	*	*	.03	.36	.11	.02			
EAST LAWAI 934	A	5.72	.36	*	*	2.65	.28	.03	.01	.05	*	*	.90	.20	.18	T	.09	*	*	.42	.02	.06	.05	.04	*	*	.03	.28	.07	T		*	*
ELELE 927	A	3.38	.03	*	*	2.52	.02	.01		.02	*	*	.11	.01	.01		.03	*	*	.05	.01		.02	.06	*	*	.42	.06				*	*
HALAULA 1110	A	4.00	.02	*	*	2.00	.30				*	*	.11	.02	.05		.02	*	*	.03			.03	.95	*	*	.30	.14		.03	*	*	*
HALENANAHO 1006	A	5.13	.15	*	*	2.86	.28	.05	.04	.06	*	*	.49	.11	.06		.03	*	*	.16			.05	.27	*	*	.07	.21	.24			*	*
HUKIPO 945		2.43			1.78	.55	.10																									
ILILIULA INTAKE 1050	A	12.81	.72	*	*	4.85	.87	.04	.23	.35	*	*	1.42	.34	.35	.11	.22	*	*	.67	.17	.03	.28	.30	*	*	.35	.79	.65	.07	*	*	*
INTAKE WAINIHA PC 1086	A	4.91	2.10	*	*	.87	*	*	*	*	*	*	1.79	*	*	*	.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KALIHIWAI RES 1131	A	8.46	.81	*	*	3.60	.11	.01		.10	*	*	1.19	.21	.32	.02	.04	*	*	.37	.09	.10	.02	.25	*	*	.31	.49	.37	.05	*	*	*
KANALOHULUHULU 1075		1.89		.12	.96	.36	.12					.08	.10		.02								.10					.03				
KANEHA RESERVOIR 1092	A	6.79	.05	*	*	3.55	.35	.08		.02	*	*	.25	.10	.05	.05	.03	*	*	.09		.04	.03	.60	*	*	1.10	.20	.15	.05	*	*	*
KAPAA STABLES 1104	A	4.28		*	*	2.55	.14				*	*	.23	.10				*	*	.02		.02		1.07	*	*	.15				*	*	*
KEALIA 1112	A	3.20		*	*	1.95	.27				*	*	.17	.05	.01		.04	*	*	.10				.45	*	*	.10	.06			*	*	*
KEKAHA 944		2.00		.05	1.45	.46	.04																									
KILAUEA 1134	A	5.55	.13	*	*	2.09	.11			.08	*	*	.43	.19	.42	.02	.12	*	*	.04	.06			.64	*	*	.99	.18	.04	.01	*	*	*
KILAUEA FIELD 17 1135	A	6.51	.20	*	*	2.72	.13	.03	.09	.05	*	*	.72	.11	.44	.04	.03	*	*	.08	.05	.11	.01	.51	*	*	.95	.16	.08		*	*	*
KILAUEA POINT 1133		4.38	.11	1.50	.16	.10					.27	.03	.08	.04		.02			.02	.12		.10	.79		.15	.04		.01		.31	.45	
KOLO 1033		1.18			.63	.35							.10												.08		.10					
KOLOA 936	A	6.52	.40	*	*	2.66	.69	.01	.03	.16	*	*	.99	.18	.14		.15	*	*	.24	.02	.09	.02	.04	*	*	.27	.31	.12			*	*
KOLOA HAUKA 994	A	7.24	.14	*	*	3.09	.12	.03	.06	.15	*	*	1.07	.15	.07	.03	.14	*	*	.45	.10	.03	.15	.39	*	*	.32	.43	.29	.03		*	*
KOLOKO RES 1137	A	6.65	.27	*	*	3.30	.16			.08	*	*	.59	.14	.62	.05	.03	*	*	.15	.03	.02	.02	.89	*	*	.06	.23	.01		*	*	*
KUKUIULA 935	A	3.60	.09	*	*	2.27	.30	.01		.03	*	*	.36	.01			.07	*	*	.07		.11	.05	.02	*	*	T	.18	.03			*	*
LIHUE SAFETY STA		6.07	.12	.08	2.40	.82	.15		.01	.04	*	.57	.05	.13	.03	.05	.05	*	*	.03	.03		.06	.57	*	*	.11	.26	.02	.04	*	*	.45
LIHUE 1020	A	6.31	.09	*	*	3.60	.37	.01			*	*	.13	.06	.02	.05	.02	*	*	.03			.05	1.45	*	*	.02	.28	.13		*	*	*
LIHUE WB AP 1020,1	R	5.85	T	2.05	1.03	.18	.48			T	.04	.04	.03	.01	.04	.01		T		T	.01	T	.07	1.42			.16	.06	T		T		.22
MAKAHUENA POINT 940.1		2.38	.04	.01	1.23	.16	.16				.07	.08					.05				.01		.05				.01	.12	.04				.35
MAKAWELI 965	A	2.82	.03	2.20	.38	.01	.08			.01	.02	.01						.04					.01			.02					.01		
MANA 1026		1.57		.03	1.07	.47																										
MOHIHI UPR CROSS 1083	A	1.23		.43	.64	.05	.11																									
MOLOAA 1145	A	3.23	.05	*	*	1.67	.83				*	*	.14	.02	.03			*	*	.04		.03	.02	.31	*	*	.03	.06			*	*	*
MOUNT WAIALEALE 1047		32.17	4.29	2.68	2.28	.24	.04		.47	1.81	1.50	2.04	.51	.67	1.85	.28	.67	.71	.91	.31	.59	.20	.91	.67	.08		2.09	3.27	1.02	.35	.04	.04	1.65
NIU RIDGE 1035		1.83			1.16	.52	.02																				.13						
N WAILUA DITCH 1051	A	15.66	.60	*	*	6.00	.40	.20	.40	.46	*	*	1.80	.46	.56	.40	.36	*	*	1.20	.26	.16	.20	.70	*	*	.20	.50	.60	.20	*	*	*
PH WAINIHA 1115		6.11	1.50	.22	.65	.22	.05			.07	.23	.43	.95	.09	.01		.03	.08	*	.26	.11	.03	.05	.01			.02	.42	.48	.02			.18
PRINCEVILLE RANCH 1117		4.71	.48	.64	1.05	.21	.03			.04	.05	.09	.36	.20	.13		.06	.03	.05	.15	.04		.03	.04	.12	.03	.11	.39	.03				.35
PUEHU RIDGE 1040		2.40			1.73	.47	.10						.04														.06						
PUHI 1013	A	5.43	.07	*	*	2.90	.38	.05		.03	*	*	.30	.05	.07		.09	*	*	.03		.03	.04	.59	*	*	.20	.39	.21			*	*
RESERVOIR 6 1004	A	5.74	.21	*	*	3.03	.15		.05	.03	*	*	.45	.21	.17		.03	*	*	.13	.05	.02	.03	.41	*	*	.07	.41	.26	.03		*	*
WAHIAWA 930	A	4.20	.07	*	*	3.27	.12	.01	T	.02	*	*	.26	.05	.04	T	.03	*	*	.05	.01		.11	.04				.12				*	*
WAHIAWA MOUNTAIN 990	A	14.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.50
WAIAHI LOWER 1054		11.15	.36	.51	2.95	1.24	.21	.03	.11	.22	.37	.64	.91	.29	.21	.04	.28	.01	.14	.11	.06	.11	.07	.29	.40			.70	.37	.04	.02		.45
WAIAHI UPPER 1052		11.88	.51	.51	2.85	.63	.85	.02	.21	.24	.23	.67	.87	.24	.30	.04	.21	.21	.20	.21	.15	.05	.05	.25	.07	.23		.89	.63	.13	.03		.40
WAIAWA 943		1.74			1.35	.37	.02																									
WAILUA KAI 1065	A	6.11		*	*	3.27	.45				*	*	.34	.04			.05				.04			.90	*	*	.85	.17			*	*	
WAIHEA 947		2.43			1.75	.67	.01																									
WEST LAWAI 931	A	3.96	.12	*	*	2.46	.12	T	.01		*	*	.42	.02			.03	*	*	.06	.01	.09	.03	.01				.24	.32	.02		*	*
* * * ISLAND OF OAHU																																
AIEA FIELD 625 761	A	1.85	*	*	*	.03	.07	*	*	*	*	*	.95	*	.08	*	*	*	*	*	*	*	.05	*	*	*	*	.55	.04	.08	*	*	*
BERETANIA PUMPING STA		.74				.10			T	T		.10	.10				.04								*	*	.07	.28		.05			
CAMP 84 807	A	1.00	*	*	*	.05	.11	*	*	*	*	*	.43	*	*	.05	*	*	*	.02	*	*	.13	*	*	*	.02	*	*	.16	*	.03	*
CHURCH COLLEGE LAIE		6.27		3.75	.32	.26	.06					.28	.06	.06	T				.04					.19	.32		.23	.42	.03			.05	.20
COCONUT ISLAND 840,1		1.66		.08	.18	.10	.06					.04	.15	.03	.02		.04	.01	.03		.01		.24	.01	.47	.03	.05	.02	.05			.04
EWA PLANTATION 741		.20			.02	.03																								.15		
HELEMANO INTAKE 881	A	2.68	*	*	.38	*	*	.06	*	*	*	.84	*	*	.13	*	*	*	.05	*	*	.12	*	*	*	.52	*	*	.58	*	*	*	*
HOKULOA 725.2	A	1.81	*	*	.55	.36	*	*	*	*	*	.28	.18	*	*	*	*	*	*	*	*	.04	*	*	.17	*	*	.23	*	*	*	*	*
HONOLULU OBSERV 702.2		.12	.04	T	T	.02	T						T		T		T														.06	
HONOLULU WBFC 703	R	.21	T	T	T	.10		T	T	T	T	T	.03	.02	T	T	.01	T	T		T	T	.01	T			.03	.01	T				
HONOLULU SUBSTA 704		.42					.08				.07					.02	.02						.01	.03			.15	.04					
H S P A EXP STA 707		1.11		.01		.34	.01			.02		.12	.09		T		.09					T	.03	.01			.01	.32		.06			
KAHANA 883	A	25.88	*	*	*	5.87	*	*	*	*	*	*	4.00	*	*	*	*	*	*	*	5.15	*	*	*	*	*	4.06	*	*	*	*	*	6.80
KAHUKU 912	A	3.60	.16	*	*	1.67	.16		.01		*	*	.15	.14			.01	*	*	.06				.06	*	*	.46	.67	.05		*	*	*
KAILUA FIRE STA 791.3		.64	.01		.02	.02	.10	.01	T	.01	.02	T	T	T	T	.01	.01	T		T	T	T	.20	.04	.09	T	.01	.06		.01	T	.02
KALIHI RES SITE 777		9.38	2.98	.04	.58	.18				.08	.08	.66	.28	.82	.16	.18	.16	.14	.04				.30	.98		.08	.28	.80	.06		.16	.28	.06
KANEOHE HAUKA 781		6.60	.07	2.38	.16	.66	.20				.06	.03	.40	.10	.29	.01	.12	.01	.05		.01	.03	.18	.20	.29		.02	.33	.23	.05	.59		.13
KANEOHE RANCH 838	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KAPALAHA 773	A	1.75		*	*	.28	.06							.25									.12	.10				.90	.04		*	*	
KAWAIHAPAI 841	A	.74		*	*	.40	T				*	*	.13										.05	.04				.12	T		*	*	
KAWAI IKI INTAKE 880.2	A	13.00	*	*	*	*	*	*	*	*	*	*	*	*	*	13.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KEHOO CAMP 8 855	A	.62		*	*	.18	.03			.01	*	*	.28	.02									.01	.04				.04		.01	*	*	*
KOOLAU DAM 833		9.06	.12	.30	.02	.18	.01		.09	.35	.39	1.62	.05	.63	.10	.04	.55	.47	1.05	.12	.07		.35	.18	.07	.20	.20	.48	.26	.82		.34	
LUALUALEI 804		.77		*	*	.25	.15				*	*	.02										.02		*	*	.31	.02					
LUALUALEI WTR TUNNEL	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
LUNALILO HOME 724.2		.78			*	.56						*	.03		.13	*	.06																
MAKAHA KAI 796	A	.00																															
MAKAHA PUMP 800.2	A	.10				.09	.01																										
MAKAPUU POINT 724		1.06	.01		.01	.77					.01		.02	.01	.01											.05	.12	.05					
MANOA 712		3.97	.04	.06		.21			.04	.02	.11	.36	.42	.12	.05	.03	.33	.05	.14	T	.03		.16	.21			.06	.88	.16	.31			.18
MANOA TUNNEL 2 716		9.98	.54	.02	.32	.40			.04	.38	.32	1.18	.32	.84	.46	.66	.28	.32	.02	.06		.18	.84	.20	.02	.06	.70	.78	.36	.02	.04	.52	.10
MOANALUA 770		1.03		*	*	.20	.01			.03	.02	.11	.26	*	.10	*	*	*	*	*	*	*	*	*	*	*	*	.30						
NUUANU RES 4 783		7.78	*	*	*	1.87	*	*	*	*	*	*	.73	*	*	*	*	*	*	2.50	*	*	*	.44	*	*	*	*	*	1.45	*	*	*	.79
NUUANU RESERVOIR 5 775	A	4.95	.04	*	*	.40	*	*	*	*	*	*	.80	.10	.42	.03	.38	*	*	.22	.05	T	.25	.29	*	*	.25	1.10	.10	.42	*	*	.10
OPAEULA 870	A	2.82		*	.07	.15	.07		.02	.02	*	.36	.33	.02	.01		.08	*	.10		.01		.12	.05	*	.16		.52	.05	.08	*	*	.60
PALOLO VALLEY 718		7.54	.32	.10	.12	.22	.04			.20	.04	1.00	.24	.98	.18	.36	.30	.14	.02	.02	.02	.18	.64	.18		.02	.76	.68	.14		.12	.46	.06
PAUOA FLATS 784		12.98	.48	.02	.48	.38		.12	.08	.34	.20	.84	.26	2.14	.56	.90	.30	.38	.08	.06	.08	.04	1.14	.84	.02	.08	.98	1.30	.44	.04	.02	.18	.20
PORTLOCK ROAD 724.4		.23		.03				.01			.01			.02							.01	.01		.04	.02	.02	.05			.01			
PRI WAHIAWA 820.2	A	1.11	*	*	*	.08	.05		.03	*	.04	*	.37	.01	T		.06						.16	.01	.12	*	*	.18					
PUNALUU 884	A	9.20	.02	2.98	*	3.28	.30		.07	.04	*	*	.21	.16	.06	.01	.05	*	*	.14			.07	.35	*	*	.84	.15	.47		*	*	*
PUNCHBOWL CRATER 709	A	1.46		.01		.03	.15		.02	.03	.04	.12	.12			.01	.10	.01	.01				.05	.03	.02	.02		.50	.03	.10	.01	.03	.02
ST STEPHENS SEM 788		3.69	T	.25	.23	.27	.20	T	T	.04	.02	.06	.12	.14	.24	.14	.09	.03	.05	.01	.04	.01	.17	.33	.49	.10	.03	.22	.01		.34		.06
TANTALUS 2 780.5		7.38	.04	.16		.15	.16		.15	.05	.52	.33	.72	.08	.33	.06	.79	.11	*	.28	.07		.21	.60	.01	*	.02		1.62	.70	T	.01	.21
UNIV OF HAWAII 713	A	1.53		*	*	.10	.06	T		.01	*	*	.32	T	T		.17	*	*	.02	T	.02	*	*	*	*	.10	.59	.06	.08	*	*	*
WAHIAWA DAM 863	A	1.52		*	*	.20	.13	.01		.02	*	*	.68	.02			.04	*	*	.01			.10	.01	*	*	.06	.21	.01	.02	*	*	*
WAIAHOLE 837	A	13.08	.65	*	*	2.45	.58			.03	*	*	1.94	.35	.37	.28	1.06	*	*	.09			.18	.95	*	*	1.29	1.08	.26	.19	*	*	1.33
WAIALAE KAHALA 715		.69	T			.07	.10	T				T	.04	T	.13	T	.09	T	T			T	.02	.05	T	.05	T	.11	.03	T	T	T
WAIALUA 847	A	.45			.07	.07				T	.06	.02	.08										.04	.02				.02				.07
WAIANAE 798.2	A	.10		T	.06	.02	.02						T	T									T										
WAIANAE MAUKA 803	A	1.81	*	.02	*	*	*	.10	*	*	.70	*	*	*	.20	*	*	.05	*	*	*	.08	*	*	.17	*	*	*	*	.49				
WAIAWA 836	A	8.63	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.63
WAIKANE 885	A	12.94	*	*	*	3.96	*	*	*	*	*	*	1.74	*	*	*	*	*	*	*	2.26	*	*	*	*	*	3.24	*	*	*	*	*	1.74
WAIKIKI 717.2		.34			T	.27						T	.01				.02								T		.04						
WAIHANALO EXP FARM		1.17			.37	.20	.12			T		.03	.03	.08	.05							.08	T		.12	.01	.01	.07					
WAIHEA 892	A	1.31		*	*	.17	.01		.02	T	*	*	.53	T			.10						.10	.04				.16	.10	.08	*	*	*
WAIPAHU 750	A	.20				.03							.08				.02											.07			*	*	
WILHELMINA RISE 721		2.06	.06			.16	.02				.06	.30	.06	.10	.04	.12	.14						.04				.42	.32	.14		.04	.04	

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

HAWAII MAY 1970

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * * ISLAND OF MOLOKAI																																	
KALAUPAPA 563	A	.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.12	*	.40	*	*	*	*	.10	*	.16	*	*	.08	*	*	*
KAUNAKAKAI 536	A	.00																															
KEONELELE PENS 551	A	.00																															
KUALAPUU 534	A	.08								.02			.02				.02			.01												.01	
MAPULEHU 542		2.71	.03		.02		.05		.08	.12	.03	.21	.03	.01		.08		.06			.04			1.40	.22	.02	.14	.04		.03		.08	.02
MAUNALOA 511	A	.11		*	*	.03									.01										*	*	.03	.04					
MOLOKAI AP 524		.03	.02							.01	T	T					T																
PUUOMOKU RANCH 542.1		.97	.05		T		T	.04	.16	.11	.14	.04	.06	T	T	.01				.07	T			.04	.11	T		.05	.05		.04		
WAIKOLU 540	A	2.53	*	*	*	.38	*	*	*	*	*	*	1.25	*	*	*	*	*	*	.58	*	*	*	*	*	*	.32	*	*	*	*	*	*
* * * ISLAND OF LANAI																																	
KANEPUU 690	A	2.95	*	*	*	*	*	*	2.87	*	*	*	*	*	*	T								*	*	*	*	*	*	.06	*	*	.02
KAUMALAPAU HARBOR 658	A	T																*	*	T													
LANAI CITY 672	A	.69	.03	*	*	.07			T		*	*	.10		.01	*	.09								*	*	.27	.01				*	.11
LANAIMALE 684	A	1.37	*	.18	*	*	*	*	*	*	.30	*	*	*	*	.03	*	.15	*	*	*	*	*	.30	*	*	*	*	*	*	.44	*	*
MANANA 694	A	.72	*	*	*	*	*	*	.64	*	*	*	*	*	*	.03								*	*	*	*	*	*	.05			
MALAUEA 676	A	.23								*	*	*	*	*	*	.08								*	*	*	*	*	*	.15	*	*	T
WAIAKEAKUA 685	A	.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.62
* * * ISLAND OF MAUI																																	
AUWAHI-252	A	1.07	*	*	*	*	1.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*
HALEAKALA B E S 434	A	2.14		.25	.01				.03			.16	.32	.01				.25	.07		.02						.04	.67	.16	.08			.03
HALEAKALA RANCH 432	A	.84	*	.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.26	.12				
HALEAKALA RS 338		3.01	.06	.76	.48	*	T					.01	.09	T					.04	T				T		.02	T	.59	.12	.31	.03		.50
HALEAKALA SUMMIT 3?8.4		*	.51	*	*	1.05												*	*	.06					*		.10	.28	.13	.04	*	*	*
MALLIMAILE 423	A	1.15		*	*	.03						*	.12				.03	*	*	.35	.02								.08	.52				
MAMAKUAPOKO 485		2.32	.06	.07						.13	.28	.09	.20	.13	T		.07	.17	.21	.01	.02	.01	.20	.07				.46	.09				.05
MANA 354		2.60	.03	.23				.03	.04	.10	.05				.24				*	.42						*	.52	.55	.14		.08	.17	
MANA AIRPORT 355		3.17	.06	.32	T			.06		.25	.10	.04	.20	.16	.11	.05	.05	.23	.11				.09	.02	.03	.35	.19				.21	.32	.22
MANAHULI 281		3.06		.28				.15		.30	.06				.27	.08			.68			.02	.16	.08		.09	.34	.32	.03		.20		
HOLUA CABIN 259.5	A	.35	*	*	*	*	*	.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
HONOKOHAU 440	A	7.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.10	*	*
HONOKOHUA 493	A	1.69	.03	*	*	.04	*	*	*	.16	*	*	.22	.09			.08	*	*	.17	.02	.02	.04	.12	*	*	.21	.37	.07	.03			.02
HONOMANU GULCH 341	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00
KAANAPALI AIRPORT		-	.26								T	.01	-	-	-	-	-	-	-		T		-	-			-	.06		-			-
KAHOMA INTAKE 374	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
KAHULUI WB AP 398	R	.02						T		T					T		T	T			T							.02					
KAILILI 436	A	31.18	*	*	*	*	*	*	*	*	*	*	*	27.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.58
KAILUA 446		8.01	.67	.81	.22			.05	.02	.59	.62	.21	.56	.27	.10		.12	.28	.66		.17		.40	.34	.01	.01	.27	.67	.54	.06	.08	.14	.14
KAUAULA INTAKE 375	A	1.92	*	*	*	.92							.08	*	*	*	*	*	*	.51	*	*	*	*	*	*	.41	*	*	*	*	*	*	*
KEAHUA 410		.49	.05	.01														.20	T									.03	.20					
KEANAE 346	A	18.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.40
KEAWAKAPU BEACH 260.2		.00																															
KIHEI 311		.02																											.02				
KIPAHULU 258		3.98	.21	.60		.08		.14	.10	.17	.24		.14	.09	.23	.04	.29				.32		.12	.09	.22		.15	.52	.05		.18		
KULA HEIGHTS 323.2		.44	.28																.10									.06					
KULA SANATORIUM 267		.48		.19					.05	.09	.01								T						T	T		.03	T		T	.05	.06
LAHAINA 361		.12	.05																									.07					
LAUNIUPOKO INTAKE 376	A	1.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.10
LAUNIUPOKO VILLAGE 372	A	.18	.07														.10											.01					
LUPI UPPER 442	A	9.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.70
MAHINAHINA 466	A	1.72	.10							.09	.19		.28		.07		.10	.24	.09					.09				.25	.22				
NAKALELE -FLO 60-497	A	1.02	*	*	*	.02	*	*	*	*	*	*	.17	*	*	*	*	*	*	.14	*	*	*	*	*	*	.33	*	*	*	*	*	.36
OLINDA 332	A	1.90	.12	*	*	.66	.01	T	.01	.01				*	.02	*	.01	*	*	.03	T			.14	*	*	.02	.43	.08	.36	*	*	*
OLOWALU 296		.00																															
OLOWALU GULCH 377	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00
PAAKEA 350		17.41	1.15	2.23	1.47	.03		.07	.09	.80	1.63	.80	1.14	.45	.52	.26	.23	.31	.93	.17	.23	.04	.38	.59			.22	1.41	.60	.53	.45	.40	.28
PAIA 406		.56	.05	.01					T	.01	.03	T	.07	.01				T	.03	T	T		.01					.21	.02				
PANILEIHULU 259.2	A	6.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.65	*	*	*	*	*	*	*	*	.70	*	*	*	*
POHAKEA BRIDGE 307.2	A	.07	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	.05			
POLIPOLI SPRINGS 267.2	A	1.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.05	*	
PUOHOKAMOA 2 343	A	13.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.80
PUU KUKUI MAKAI 472	A	7.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.00
PUUNENE 396		.07	T															.03											.04				
SPRECKELSVILLE 400.2		.09	T															.02	T									.04	.03				
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	2.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.55
UKUMEHAME 301	A	.00																															
ULUPALAKUA RANCH 250		.79		.11					.13											.25								.30					
WAHIKULI 364	A	.55	.40																									.15					
WAIEHU CAMP 484	A	.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	*	*	*	*	*	.22	*	*	*	*
WAIMEE VALLEY 482	A	.54	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	*	*	.47	*	*	*	.05
WAIKAMOI 449	A	13.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.10
WAIKAMOI OAM 336	A	9.18	.24	*	*	.78	.01	T	*	2.12	*	*	2.12	*	.20	*	.21	*	*	1.14	.21	.02	.20	.21	*	*	.30	2.36	.62	.39	*	*	*
WAIKAPU 390	A	.32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	.05	.10	*	.06	*	.07
WAILUKU 386		.06																									T	.06	T				
WALOPAI RANCH 256	A	2.18		*	*	2.00	*	*	.18																									
* * * ISLAND OF HAWAII																																	
AHUA UKI 75	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
AWINI 182.1	A	16.37	8.16	*	*	*	*	*	*	2.05	*	*	*	*	*	*	2.41	*	*	*	*	*	*	*	*	*	*	*	*	*	3.75	*	*
EAST HONOKANE 183.2	A	14.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.51	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.90
HAINA 214		9.14	2.95	.04						.28	.07	.33	.39	.14			.10	.10	.07	.97	.32	.15	.02	.02		.03	.02	.73	.63	.87	.90		.01
HAKALAU 142		21.26	2.93	6.35	1.12	.01		.02	.17	.87	.46	.22	.96	.30		.04	.31	.37	.41		.02	.27	.12			.03	.31	2.31	1.77	1.50	.34	.05	
HALEMAUMAU 52	A	6.58	*	*	*	*	*	*	*	*	*	*	3.32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.26
HALEPIULA 117	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
HALEPOHAKU 111	A	3.00	.30	.50					T			.05							.05	T								1.40	.23	.28	.25	.02	T
HAWAII VOLCNS NP HQ 54		15.49	1.38	3.67	.79	.04	T	*	.10	.42	.78	.66	.85	.05	.01	.02	.46	.18	.45	*	.54	.01	.06	.05	.16	.01	.39	1.44	*	2.02	.64	.25	.06
HAWI 168	A	4.83	1.20	*	*	.05		.05	.01	.43	*	*	.86	.07	.10	.05	.44	*	*	.49	.03	.04	.05	.08	*	*	.01	.26	.13	.05	.23	*	*	*
HILO COUNTRY CLUB 8616		34.90	4.05	4.65	.90			.10	.02	1.48	1.55	1.34	2.00	.87	.02	.04	1.00	.60	.95	.50	.90	.28	.26	.26	.48	.02		5.80	2.67	2.88	.60	.40	.28
HILO WB AIRPORT 87	R	20.26	2.11	2.14			.07	.01	.58	.82	.12	1.14	1.02	.15	.01	.23	.07	.89	.25	T	.16	.27	.31	.25	T	.76	.99	6.40	1.42	.04	.05		T
HOLUALOA 70	A	8.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.20	*	*	*	*
HOLUALOA BEACH 68	A	1.93									.20		1.10							.12	.51												
HONAUNAU 27		5.45				.01	.04	.01	.11	.02	.05	.15	.05	.16	.02		.01	.30	.02	.01	.04	.10	.06	.07	.04	.60	.12	.19	.11	1.61	1.44	.06	.05
HONOHINA 137		21.06	4.02	4.14	.75	.01		.01	.15	.91	.61	.33	1.41	.42			.63	.21	.95		.06	.19	.15	.02	.01		.43	2.62	1.86	.55	.46	.05	.11
HONOKANE 181.1	A	6.25	*	*	*	*	*	*	*	1.95	*	*	*	*	*	*	1.47	*	*	*	*	*	*	*	*	*	.06	*	*	*	2.77	*	*
HONOMU MAUKA 138		34.96	6.68	4.95	1.52	.02		.05	.13	1.93	1.64	.54	1.75	.66		.03	.71	.38	1.45	.32	.72	.37	.07	.42	.23	.13	.47	3.03	3.17	2.26	.89	.30	.14
HONUAULA 71	A	4.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.80	*	*	*
HUALALAI 72	A	2.98	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.98	*	*	*	*
HUEHUE 92.1	A	6.29	.28	*	*	.04	*	*	.10	*	.45	1.83	.22	.06	*	*	.53	*	.72	.92	*	*	.09	*	*	*	.25	.50	.05	*	.25	*	*
KAALA 1K1 12	A	6.30	.12	2.60	.47	.11	.09	T	.12	.04	*	.08	.01			.20	.13	T	T						.77	.33		.19	.11	.22	.50	T	.21
KAAWALOA 29	A	1.66					.04	.01	.20	.03	*	*	.18	.31	T		.01	*	*	.41		.05	.02	.20	*	*	T	.05	.15	*	*	*	*
KAINALIU 73.2		2.05				.01	.12	.01	.25	T	.07	.11	.12	.32	T		.04	.03	.20	T		.09	.02	.06		.01		.02	.13			.37	.07
KALAPANA NO 1 67.8		15.87	1.06	1.07	.10	.05	T	.05	T	.10	.38	.64	.14	.11	.06	.03	.43	.54	.15	.10	.03	.05	.02	.03	.08	T	1.04	4.43	3.12	1.40	.60	.05	.01
KAMAOA NO 2 5	A	2.35	*	*	.97	*	*	*	*	*	*	.72	*	*	*	*	.07	*	*	*	*	*	*	*	*	.28	.34	*	*	*	*	.04	
KAMUELA 192.2		1.90	.23	.09						.20	.40	.10	.04	.07	.05		.07	.02	.01	.06	.03	.02						.12	.14	.16	.09			
KAMUELA AIRPORT 191		1.01	.15	.02				T		.10	.14	.06	.02	.02	.02		.25	T	T	.01	.05	T						.12	.02	.03	T	T	T
KAPAPALA RANCH 36	A	6.58	.22	2.02	1.00	*	*	*	.04	.25	.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.65	*	.23	.47	.58	.64	*	.28
KAPOHO LANDING 93.5	A	16.33	6.12	*	*	*	*	*	*	*	*	*	*	*	*	*	3.30	*	*	*	*	*	*	1.69	*	*	*	*	*	5.22	*	*	*

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

HAWAII
MAY 1970

Station		Total	Day of Month																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAWAINUI LOWER 193	A	26.32	6.20	*	*	*	*	*	*	4.25	*	*	*	*	*	5.67	*	*	*	*	*	*	3.45	*	*	*	*	*	*	6.75	*	*	
KEAAU 92		27.13	4.62	3.82	.55	.02		.11	.11	.55	.67	.27	.96	.74	.06	.03	.75	.17	.79	.01	.13	.09	.15	.07	.10	.12	.53	3.45	3.72	3.85	.65	.02	.02
KEALAKEKUA 26.2		2.69					.05		.20	.07	.20	.09	.03	.26			.01	.02	.56	.05	T	.10	.01	.23	.01	.09		.06	.20	.01	.21	.22	.01
KEHENA 181.2	A	25.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25.60
KIOLAKAA A & F 6	A	11.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.06	*	*	*
KIPA 89.2	A	40.45	3.79	5.01	2.06	.02	.02	.22	.06	1.59	1.80	1.26	2.00	1.04	.05	.12	.98	.69	.92	1.14	.98	.44	.30	.28	.49	T	1.36	3.85	5.52	2.85	.49	.81	.31
KOHALA 179.1	A	6.03	1.87	*	*	.03		.03	.01	.28	*	*	1.14	.18	.05	.09	.45	*	*	.69	.05	.05	.07	.06	*	*	.05	.32	.33	.13	.15	*	*
KOHALA MAULIL1 176	A	7.74	1.71	*	*	.07		.10	.01	.48	*	*	1.70	.41	.24	.01	.30	*	*	.90	.13	.05	.06	.11	*	*	.03	.39	.46	.16	.42	*	*
KOHALA MISSION 175.1		6.90	1.85	.04		.01		.10	.02	.38	1.19	.05	.52	.11	.07	.03	.40	.40	.25	.05	.04	.04	.06	.08	.02		T	.42	.28	.13	.33	.01	.02
KOIAWE LOWER 196	A	16.49	4.00	*	*	*	*	*	*	1.30	*	*	*	*	*	*	3.95	*	*	*	*	*	*	2.02	*	*	*	*	*	*	5.22	*	*
KONA AIRPORT 68.3		-					.03	T	.03		.01	.02	T	.25						.24				1.30						.03	.31	-	
KONA VILLAGE 93.8		.88	.06				.02					.13					.25	.02	.18										.14	.08			
KUKAIAU 222		14.21	4.06	.02						.39	.31	.85	.43	.79			.15	.12	.29	2.36	.46	.29	.03		T			.14	.90	1.13	1.41	.08		
KUKUIHAELE HIC 199		8.59	2.13							.60	.40	.44	.17	.62			.19	.24	.14	.74	.11	.31	.04			.05	.02	.65	.42	.56	.76		
KUKUIHAELE MILL 206	A	7.84	2.50							.30	*	*	.30	.16			.03	*	*	.75	.11	.39	.05		*	*	.46	1.07	.45	.40	.87	*	*
KULANI CAMP 79		19.17		2.80	.24	.02			.22	.74	1.00	1.02	1.06		.05	.08	.14	.16	.61	.39	.40	.02	.06	.06	.28	.10	.51	2.20	2.00	4.31	.45	.13	.12
KULANI MAUKA 76	A	3.98	.16	.02						.07	.15	.41	.03				.04	.10	.04							.71	.05	1.33	.83	.04			
KULANI SCHOOL SITE 78	A	16.16	*	6.40	*	*		*	*	*	.88	*	*	*	*	*	*	2.00	*	*	*	*	*	*	1.48	*	*	*	*	*	*	5.40	*
LANIHAU 68.2		5.83				.18	.22		.34			1.50	.34	.13				.29	.18	.10	.64	.20	.08	.22		.27			.27	.55	.20	.12	
MANUKA 2	A	2.95	.35	*	*	.10	.24	T		.04	*	*	.30	.36		.09	.03				T		.09	.03	*	*	1.05	.26	.01	T	*	*	*
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAUNA LOA SLOPE 085		1.51	.02									.16														.01		.62	.32	.13		.25	
MIDDLE HOLUALOA 68.1	A	2.34	*	*	*	*	*	*	.07	*	.20	*	1.50	*	*	*	*	*	*	.14	.43	*	*	*	*	*	*	*	*	*	*	*	*
MIDDLE PEN 147.1	A	.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.10															
MOAULA 18	A	1.51	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.51
MOUNTAIN VIEW 91		32.74	3.53	4.95	.68	.06	.02	.17	.07	1.22	1.34	.54	1.95	.38	.05	.11	.57	.38	1.73	.02	.21	.10	.21	.06	.21	.25	1.12	3.20	3.88	4.16	1.17	.20	.20
NAALEHU 14	A	4.22	.12	2.15	.36	T	.07	T	.06	T	*	*	T			.02	.31	*	*	.01					.20	.20	T	.11	.06	.06	.49		
NAPOOPOO 28	A	.59	*	*	*	*	*	*	*	*	*	*	.10	*	*	*	*	*	*	.31	*	*	*	*	*	*	.18	*	*	*	*	*	*
NAULU FOREST 38.6		12.41	.88	2.80	.01	.11	T	T	.11	T	.18	.12	.15	.04	*	.03	.32	.03	.04	.02	.02	.03	T	.02	.03	T	.02	2.00	1.89	*	3.36	.02	.18
NIULII 179	A	6.91	2.11	*	*	.10		.02	.01	.23	*	*	1.19	.19		.05	.52	*	*	.87	.15	.04	.03	.12	*	*	.05	.38	.53	.12	.20	*	*
OOKALA 223		15.69	5.34	.10	.02					.97	.59	.34	.72	.75	.01		.23	.25	.44	.69	.26	.17	.06	.02			.15	.84	1.52	1.97	.21		.04
OPIHIHALE 2 24.1		2.50					.09	T	.13	.43	T	*	T	*	T	.12			.02	.12	.02	.09	.08	T	T	T	.09	.07	.47	.59	.01	.04	.13
ORCHID LAND EST 91.5	A	26.40	8.51	*	*	*	*	*	*	*	*	*	*	*	*	*	7.00	*	*	*	*	*	*	1.74	*	*	*	*	*	9.15	*	*	*
PAAUHAU 217		8.16	2.90			.01				.25	.06	.30	.16	.20			.02	.08	.11	.80	.20	.08					.02	.54	.73	.79	.90		.01
PAAVILO 221		11.42	4.08	.01						.18	.09	.76	.22	.53	T		.08	.13	.24	1.83	.44	.25	.02	T	T		.14	.60	.91	.82	.09		
PAHALA 21		6.95	.02	4.52	.82	.01			.10				.02				.01							.06	.09		.02	.17	.21	.35	.52	.03	
PAHOA 65		23.68	2.63	3.34	.46	.04	.04	.21	.12	.56	.77	.31	1.11	.39	.21	.09	.41	.22	.98	.01	.05	.21	.29	.05	.34	.43	1.88	1.92	3.36	2.34	.65	.13	.13
PAKAO 37	A	6.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.10
PAPAIKOU 144.1		29.51	5.20	5.70	1.42			.04	.09	.90	.93	.25	.82	.70	.07		.65	.53	1.16	.29		.24	.08	.37	.21	.08	1.22	2.15	4.52	1.61	.14	.11	.04
PAPAIKOU MAUKA 140.1		35.25	4.49	5.10	2.20	.01	.02	.24	.07	1.76	1.80	.38	2.10	.89	.01	.06	1.12	.72	1.22	.38	.28	.51	.09	1.34	.35	.09	1.56	3.24	3.61	1.11	.21	.18	.11
PEPEEKEO MAKAI 144		20.49	4.05	4.92	.79	.04	.01	.04	.21	.65	.32	.47	.75	.40	.03	.04	.59	.36	.90	.02	.01	.08	.10	.01	.02	.01	.32	2.73	1.65	.84	.03	.05	.05
PIIHONUA 89	A	42.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	42.00	*	*	*	*
POHAKULOA 107	A	.41	.03																									.38	*	*	*	*	*
PUAKO 95.1	A	.12	.05							.01								.06															
PUU KIHE 120	A	3.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.05
PUU LAAU 102.1	A	4.98	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.98
PUU LEHUA 73	A	2.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.30
PUU MALI 113	A	1.52	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.52
PUUOKUMAU 167	A	5.46	*	*	*	*	*	*	1.21	*	*	*	*	*	*	2.54	*	*	*	*	*	*	.99	*	*	*	*	*	*	.72	*	*	*
PUU OO 82		12.57	1.10	1.56	.33	.03				.26	.39	.48	.96		.13		.09	.30	.39	.26	.17		.16		.12	.10	.54	1.92	.85	1.62	.51	.20	.10
PUU WAAWAA 94.1	A	2.76	.04	*	.28		.04		.02		.15	.18			.05			.28						.10	*	.23		T	.12	.07	.75	.45	
SADDLE ROAD 1 84	A	45.72	16.77	*	*	*	*	*	*	*	*	*	*	*	*	*	12.80	*	*	*	*	*	*	5.15	*	*	*	*	*	11.00	*	*	*
SOUTH POINT CORRAL 3	A	1.63	*	*	1.12	*	*	*	*	*	*	.02	*	*	*	*	*	.20	*	*	*	*	*	*	.03	*	*	*	*	*	*	*	.26
UMIKOA 118		5.05	.13	*	*	.03						*	.17		.02	.01		.11		.02	.10	.02		.01		.02	.48	1.36	1.52	.85	.18	.02	
UPOLU POINT USCG 159.2		2.78	.61					.10		.60	.51	.02	.04	.07	.08		.18	.13	.14		.01		.04	.10				.08	.01	.01	.05		
WAIAKEA SCO 88.2		35.99	5.01	4.45	1.49	.02		.01	.11	*	2.72	.91	1.70	.25	.03		1.24	.56	1.10	1.16	.31	.11	*	.77	.48	*	.73	4.53	3.30	3.64	.97	.17	.22

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN 02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	14	1.9	7.2	19	E	16	90	80	71	82	3	6	8	5	3	3	28	37	8.0
HONOLULU, OAHU, WBFC	6	11.6	13.2	28	NE	18+	72	65	51	66	16	6	1	0	0	0	23	68	5.6
KAHULUI, MAUI, WB AIRPORT	5	11.1	12.2	29	E	18+	80	71	55	74	6	1	0	0	0	0	7	78	5.0
LIHUE, KAUAI, WB AIRPORT	6	10.8	12.5	22	E	19+	81	78	70	78	7	9	4	0	2	1	23	45	7.0

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
• • •																																	
ISLAND OF KAUAI																																	
KANALOMULUHULU 1075	MAX	71	68	65	69	71	75	76	75	75	70	71	72	70	72	75	73	70	71	71	70	71	70	70	73	73	69	72	72	70	74	73	71.5
	MIN	54	51	54	59	59	61	53	55	57	57	54	55	50	48	53	41	43	54	57	52	54	49	47	58	57	56	53	42	41	44	49	52.2
KILAUEA POINT 1133	MAX	75	76	76	83	82	76	77	77	80	77	77	79	80	80	80	78	80	77	79	78	80	80	84	80	79	79	80	76	81	80	78	78.8
	MIN	69	68	69	71	70	71	69	69	70	71	73	74	73	72	74	72	72	71	71	72	67	69	67	69	72	70	70	70	69	68	72	70.5
LIHUE WB AP 1020.1	MAX	82	80	78	81	82	81	83	81	82	81	81	81	82	82	82	82	84	82	81	82	81	80	81	82	81	80	82	82	82	83	82	81.5
	MIN	73	72	70	74	73	72	75	74	72	74	73	73	75	72	75	75	75	75	74	73	70	69	68	71	73	73	74	75	69	75	72	72.8
MAKAHUENA POINT 940.1	MAX	80	82	86	82	81	80	85	84	85	84	81	84	84	87	92	84	83	84	85	82	81	82	83	95	85	84	84	84		85	85	84.1
	MIN	68	74	70	75	70	75	68	74	73	70	72	74	73	75	71	71	70	75	74	70	74	67	68	74	70	75	75	74		75	74	72.3
MANA 1026	MAX	85	85	86	83	84	85	87	86	87	86	89	88	84	87	83	84	86	87	87	87	88	86	86	87	88	86	87	86	86	87	87	86.1
	MIN	64	67	68	68	71	69	67	66	67	66	65	65	66	67	66	65	66	61	65	58	65	64	64	65	63	62	61	64	63	61	62	64.9
NIU RIDGE 1035	MAX	81	82	80	79	79	80	80	81	82	83	82	80	80	81	80	80	80	81	82	80	80	81	81	82	80	81	80	81	82	80	81	80.7
	MIN	60	61	59	60	62	65	64	65	62	63	61	60	61	60	61	60	62	61	60	62	61	60	61	61	60	60	61	60	61	60	61	61.1
WAIAHI LOWER 1054	MAX	78	78	79	78	78	82	82	80	81	77	78	78	79	80	80	80	79	79	79	78	78	79	82	80	78	78	78	80	92	80	82	79.4
	MIN	66	65	66	68	68	66	66	68	65	67	64	66	66	66	68	66	67	65	66	62	64	65	60	65	61	65	65	65	59	65	65	65.2
• • •																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	84	83	84	81	81	87	85	84	84	85	83	86	85	87	85	85	86	84	83	85	83	82	86	86	85	84	85	85	87	86	86	84.6
	MIN	66	67	68	69	67	66	69	67	67	68	68	67	68	67	69	68	67	67	69	66	66	66	63	63	63	70	68	67	65	68	67	67.0
HONOLULU WBFC 703	MAX	87	84	84	83	83	89	88	88	88	87	86	88	86	88	87	88	88	87	86	86	87	85	85	88	88	87	87	88	89	89	88	86.8
	MIN	74	75	74	75	73	72	76	75	75	75	73	74	74	73	75	75	75	75	75	74	73	73	73	70	71	74	75	74	72	76	75	74.0
HONOLULU SUBSTA 704	MAX	81	82	80	78	78	81	81	81	82	81	78	81	80	82	81	81	81	81	80	79	79	78	78	79	80	79	78	80	83	82	81	80.2
	MIN	73	74	74	72	71	71	73	73	72	71	71	71	71	72	72	72	74	74	74	72	70	72	71	70	71	71	73	72	71	74	73	72.1
KAHUKU 912	MAX	80			81	78	81	81	81			81	80	81	83	83			83	81	81	82	81			85	81	81	81				
	MIN	69			69	69	68	70	73			70	70	72	73	73			71	71	71	71	69			66	69	71	72				
KANEOHE MAUKA 781	MAX	79	80	80	80	76	78	82	81	79	81	79	79	81	80	83	80	80	80	80	80	80	80	71	84	71	82	79	81	81	82	82	79.7
	MIN	68	70	69	71	67	69	72	72	70	71	69	70	71	72	70	71	71	71	72	71	66	66	67	67	68	69	69	70	69	70	72	69.7
LUALUALEI 804	MAX	87	87	84	87	77	82	85	86	85	87	84	84	86	85	87	85	86	86	86	86	85	86	85	84	84	86	84	86	87	86	88	85.3
	MIN	72	74	71	70	70	69	75	73	75	74	70	72	71	67	73	73	74	74	72	72	68	67	67	70	66	71	72	72	68	73	75	71.3
MAKAPUU POINT 724	MAX	75	77	81	79	80	79	79	76	75	75	72	76	76	75	76	77	77	77	76	76	77	75	81	82	80	79	75	77	79	76	75	77.1
	MIN	65	64	66	65	70	67	67	70	64	64	67	65	71	67	66	67	69	65	65	65	65	67	66	66	65	69	65	65	71	65	66	66.4
OPAEULA 870	MAX	80	78	81	76	75	77	84	80	79	83	76	76	80	83	84	77	82	80	80	78	80	81	82	85	83	81	77	77	82	78	83	79.9
	MIN	64	67	66	65	64	65	64	65	68	65	65	65	65	65	65	67	65	66	65	65	64	64	65	60	63	65	65	64	63	65	61	64.7
PRI WAHIAWA 820.2	MAX		84	83	84	75	80	86	80	83	79	85	78	73	86	86	82	83	85	84	83	83	84	82	84	84	83	83	82	86			82.5
	MIN		68	68	63	64	64	63	66	65	67	67	63	62	62	63	64	64	65	70	63	64	64	63	60	61	67	68	64	60	63		64.3
WAIALUA 847	MAX	83	83	81	83	80	82	88	84	81	85	83	86	85	87	88	84	84	84	83	83	82	83	84	85	86	85	83	85	85	88	85	84.1
	MIN	62	63	60	68	68	64	67	66	67	66	69	62	65	64	67	67	65	64	66	62	66	65	66	64	61	69	63	65	65	62	64	64.9
WAIKIKI 717.2	MAX	84	83	87	82					85	85	85	83		87	85		84	84	83	83				85	88	85	84		84	87	86	
	MIN	72	72	72	72					70	73	77	72		70	72		73	73	72	72				64	66	73	75		68	73	73	
WAIMANALO EXP FARM	MAX	82	81	84	79	78	81	82	82	83	83	80	80	82	83	83	82	82	82	82	82	81	81	81	82	83	83	82	82	84	83	84	81.9
	MIN	72	72	72	71	69	70	72	72	72	72	70	70	71	72	72	72	73	72	71	70	69	72	65	68	68	71	72	72	72	72	72	71.0
• • •																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	80	81	84	83	83	81	82	83	81	81	81	80	83	83	83	81	82	82	82	80	80	81	83	84	81	82	81	82	83	84	84	82.0
	MIN	68	69	75	70	66	68	70	69	69	73	69	73	69	68	69	69	74	69	71	70	70	68	71	70	70	71	71	69	69	70	70	69.9
• • •																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	75			77	76	76	77	75			72	74	77	77	78			76	78	74	77	75			78	76	75	75				
	MIN	63			65	64	64	63	65			63	63	61	64	61			63	57	56	53	57			52	61	64	64				
• • •																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	58	57	57	64	68	67	69	70	66	65	64	64	75	69	67	67	62	64	63	66	63	60	61	59	61	61	58	60	59	63	62	63.5
	MIN	45	48	47	49	52	52	54	46	52	45	47	44	52	51	49	44	42	43	43	42	40	39	39	37	40	47	42	40	42	45	42	45.2
HALEAKALA SUMMIT 338.4	MAX	44	58	58	58	56	55	56	59	58	50	51	53	55	52	57	53	52	52	54	57	63	60	59	54	53	52	48	49	52	53	56	54.4
	MIN	38	41	42	44	45	45	44	45	41	40	40	38	41	40	40	38	39	38	42	44	44	44	44	41	38	38	37	38	39	39	38	40.8
HANA AIRPORT 355	MAX	82	82	80	82	82	80	82	82	82	81	81	82	82	82	82	82	84	82	81	82	82	82	82	83	81	82		82	83	82	82	81.9
	MIN	69	66	72	72	70	70	71	70	70	71	70	69	69	69	69	68	69	70	71	67	68	71	68	66	67	68		67	70	69	69	69.2
KAANAPALI AIRPORT	MAX	74	83	83		84	82	84	85	84	85								86	85	83	84	84	82			86	85		85	86		
	MIN	68	69	69		69	68	70	69	73	72								72	72	66	67	68	66			70	70		68	69		
KAHULUI WB AP 398	MAX	86	90	88	87	84	89	87	86	86	85	83	87	88	89	87	87	86	86	85	86	86	88	87	84	86	86	87	85	89	87	87	86.6
	MIN	69	69	68	67	64	67	65	68	65	71	70	64	64	63	70	69	71	72	71	70	63	63	63	62	64	68	71	70	63	66	72	67.2
KAILUA 446	MAX	74	76	76	76	75	76	76	77	77	77	75	76	75	78	78	76	77	76	76	76	75	75	77	78	80	77	77	75	76	77	75	76.3
	MIN	65	66	67	68	65	66	66	66	66	66	66	67	67	67	67	65	67	68	67	67	66	66	63	63	63	67	66	63	63	69	68	66.0
KEAWAKAPU BEACH 260.2	MAX	84	88	88	86	87	82	88	86	90	88	92	85	86		88	88	90	89	88	88	87	87	86	89	85	90	88	88	85	86	87	87.3
	MIN	63	68	69	69	66	69	70	64	65	64	65	62	65		68	64	64	63	63	61	62	64	64	63	65	65	62	63	65	67	65	64.9
KULA SANATORIUM 267	MAX	70	72	72	70	73	71	70	69	71	73	74	72	72	71	72	73	72	73	72	72	70	71	69	72	73	72	72	73	72	73	73	71.7
	MIN	55	58	58	59	58	54	57	53	56	57	52	52	53	55	56	57	58	54	51	52	51	52	55	55	56	57	56	57	55	56	55	55.2

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX	82	85	87	85	86	81	84	85	85	85	83	86	86	90	86	86	87	87	86	85	85	85	85	84	86	88	87	86	86	87	87	85.6
	MIN	68	69	70	73	69	69	71	69	67	67	68	67	69	69	68	67	67	67	67	65	66	68	67	67	69	68	67	66	68	66	66	67.9
WAILUKU 386	MAX	79			83	81	81	81	81			81	80	82	83	83	80		81	80	80	79	80			83	81	80	81	80			80.9
	MIN	71			71	68	70	70	74			69	69	69	67	71	70		71	71	70	68	71			66	69	70	70	68			69.7
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	79	79	80	80	79	80	83	80	77	78	76	79	81	82	82	79	79	79	79	78	78	80	78	80	82	82	79	80	77	78	78	79.4
	MIN	64	67	65	64	63	67	67	67	67	67	64	64	63	64	67	64	66	66	65	64	65	64	64	65	66	66	64	66	64	65	66	65.2
HAWAII VOLCNS NP HQ 54	MAX	64	65	65	68	69		73	68	66	70	72	70	70	74	74	70	70		69	66	64	68	69	67	71	71		69	71	70	70	69.0
	MIN	55	56	52	53	52		55	52	56	57	55	55	53	53	54	54	54		53	53	52	50	56	54	54	56		54	55	54	54	54.0
HILO WB AIRPORT 87	MAX	78	81	83	80	84	85	77	80	83	78	81	81	84	86	81	83	82	82	81	78	80	80	80	81	83	80	78	81	83	84	82	81.3
	MIN	66	67	65	65	64	67	67	68	69	67	67	65	65	64	68	66	66	68	65	65	64	65	68	63	65	66	66	65	67	67	67	66.0
KAINALIU 73.2	MAX	79	80	79	79	78	77	79	74	77	74	78	78	75	79	79	79	80	79	79	75	77	79	78	79	80	80	78	80	80	78	78	78.2
	MIN	62	63	64	65	64	64	65	67	66	64	65	62	62	63	63	63	62	63	66	64	65	61	61	61	63	64	62	63	63	62	62	63.4
KAMUELA 192.2	MAX	70	68	78	78	75	75	75	75	72	72	72	71	72	74	78	72	72	72	70	68	68	75	75	75	72	75	72	68	75	75	75	73.0
	MIN	60	60	60	60	60	60	62	62	60	60	60	60	58	55	60	62	62	61	60	58	63	56	56	56	62	62	60	61	64	60	60	60.0
KAMUELA AIRPORT 191	MAX	70	72	76	78	74	75	76	70	70	73	71	72	72	76	77	72	74	70	70	70	71	73	73	77	74	74	70	70	74	77	75	73.1
	MIN	54	60	58	57	52	50	49	62	58	58	57	52	51	51	57	49	58	57	45	47	52	58	50	53	58	54	54	58	58	50	59	54.4
KEAAU 92	MAX	77	80	80	83	80	83	84	78	78	82	77	80	81	81	83	80	82	81	82	80	80	82	79	79	84	83	77	80	81	82	83	80.7
	MIN	64	65	67	66	64	65	67	67	67	68	66	65	64	65	64	66	66	67	67	64	64	64	65	65	66	65	65	65	65	67	68	65.6
KEALAKEKUA 26.2	MAX	79	79	79	79	79	77	78	73	76	74	78	79	75	79	79	79	79	79	78	74	73	77	77	78	79	79	77	78	79	77	77	77.5
	MIN	62	64	64	66	64	65	66	66	66	65	64	62	62	64	65	64	62	63	65	66	65	63	64	63	62	65	63	64	64	64	64	64.1
KOHALA MISSION 175.1	MAX	77	77	79	79	78	78	79	76	74	72	76	77	78	80	80	78	78	78	79	78	78	79	78	80	81	79	77	78	75	79	80	77.9
	MIN	65	66	67	66	67	68	69	67	68	68	67	67	65	64	67	66	67	68	66	66	65	64	64	66	66	67	65	67	66	68	68	66.5
KONA AIRPORT 68.3	MAX	82	83	81	81	83	80	80	81	82	81	82	81	83	83	82	84	83	84	83	79	81	81		83	83	83	82	84		83	85	82.2
	MIN	66	65	66	64	64	69	68	70	70	66	67	69	68	68	67	67	66	66	67	68	68	68		64	65	67	69	69		68	64	67.0
KULANI CAMP 79	MAX	58	60	61	56	61	67	69	64	63	65	61	62	64	65	67	59	64	63	63	62	60	63	60	61	63	65	64	65	65	65	67	63.0
	MIN	45	46	47	46	43	48	50	53	48	54	38	40	41	42	52	50	48	49	48	49	47	47	46	45	45	45	43	48	52	55	48	47.0
MAUNA LOA SLOPE 08S	MAX	52	51	55	58	57	57	60	58	54	52	52	52	54	56	55	52	54	52	53	54	55	52	54	49	51	46	43	44	50	50	49	52.6
	MIN	32	36	36	40	41	42	39	40	37	36	33	32	31	34	35	34	34	31	34	36	36	35	35	33	33	35	33	34	34	33	33	35.1
MOUNTAIN VIEW 91	MAX	70	76	76	76	75	79	79	73	79	79	79	76	74	77	80	77	77	77	76	74	72	78	79	79	79	77	68	68	77	77	77	76.1
	MIN	60	61	61	61	58	60	62	62	61	61	61	60	60	59	59	61	61	61	62	61	59	59	60	60	60	62	62	62	61	60	60	60.5
NAALEHU 14	MAX	79	79	79	79	78	80	78	78	78	81	81	80	78	80	81	81	80	80	80	80	77	80	80	80	80	81	77	78	81	81	81	79.5
	MIN	66	66	67	67	66	68	68	69	69	66	66	68	67	67	67	67	66	66	68	66	64	67	67	65	65	66	65	66	67	67	63	66.5
OOKALA 223	MAX	78	80	78	79	79	79	80	77	72	79	76	78	79	80	79	79	78	78	78	77	76	79	77	78	82	80	78	78	78	79	81	78.4
	MIN	63	64	67	66	66	67	67	67	66	66	66	65	65	65	67	66	65	67	65	65	65	66	67	65	66	65	65	66	66	69	68	65.9
OPIHIHALE 2 24.1	MAX	81	79	78	79	75	76	77	77	74	79	76	77	80	81	80	79	78	77	80	74	75	75	80	79	80	75	79	78	82	79	80	78.0
	MIN	61	62	64	65	64	66	66	67	64	63	60	60	62	64	62	61	59	62	63	63	61	63	60	60	60	59	60	60	60	61	61	62.0
PAHALA 21	MAX	79	78	78	78	76	80	79	80	80	82	78	80	79	79	82	80	80	81	82	79	76	80	77	78	81	81	75	77	80	79	83	79.3
	MIN	63	64	64	64	63	63	65	64	68	67	62	62	63	61	62	64	65	63	63	63	62	62	63	62	65	64	61	61	62	62	62	63.2
PUAKO 95.1	MAX	88	85	85	85	84	84	84	87	87	86	83	89	85	85	84	86	86	88	88	86	89	82	85	87	88	87	89	87	87	87	87	86.1
	MIN	69	72	70	71	69	71	73	70	73	75	73	70	68	68	72	70	73	74	73	71	68	70	68	68	70	71	73	73	69	72	72	70.9
UPOLU POINT USCG 159.2	MAX	78	78	84	84	82	82	83	81	75	82	80	82	83	83	85	82	83	84	83	82	82	84	84	85	84	83	82	83	81	88	85	82.5
	MIN	66	71	71	69	69		72	69	70	71	67	68	69	69	69	68	69	71	68	67	67	67	67	68	69	68	66	69	69	70	70	68.8

EVAPORATION AND WIND

Station		Day Of Month																													Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	.37	.41	-	.32	.25	.12	.03	.36	.28	.28	.31	.25	.33	.35	.31	.43	.38	.44	.37	.45	.39	.44	-	.27	.36	.28	.21	.30	.40	.30	.34	9.978
	WIND	242	179	72	48	64	70	130	190	198	217	211	186	173	123	162	216	215	224	251	209	205	153	52	54	121	210	205	185	136	130	119	4950
	MAX	86	87	83	80	83	85	91	89	86	88	84	87	88	92	90	88	86	87	86	84	86	87	88	91	90	85	81	89	87	89	90	86.9
	MIN	66	67	66	66	63	62	69	68	68	68	66	67	67	68	68	66	68	66	66	64	65	64	65	65	66	67	66	66	64	64	68	66.1
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.31	.31	.15	.20	.20	.15	.22	.39	.28	.30	.30	.22	.26	.29	.22	.37	.35	.39	.38	.41	.40	.15	.28	.20	.30	.39	.45	.30	.32	.24	.34	9.07
	WIND	39	32	23	16	20	6	19	34	40	46	45	26	22	20	31	38	40	37	52	38	33	20	22	10	23	35	49	27	24	17	22	906
	MAX	89	92	89	88	92	82	89	93	91	89	89	89	90	85	91	93	92	93	91	92	91	86	94	92	90	93	92	89	93	94	91	90.5
	MIN	65	66	71	70	69	68	69	67	67	67	67	66	67	68	70	66	67	66	66	65	67	67	68	65	65	67	67	66	66	68	68	67.1

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF KAUAI												
[illegible] RES.. 783	[illegible]	02	KOLOA	1	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
[illegible]AHA A 1[illegible]	A [illegible]5	01	KAWAIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
[illegible] STA 985	A [illegible]40	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
[illegible]ST LAWAI 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
[illegible] RESERVOIR 1 94.[illegible]	0465	02	KAWAIHAU	2	22 06	159 2?	350				C	LIHUE PLANTATION
ELEELE ?2	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
[illegible]LA A 1[illegible]	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
[illegible]ANAMO [illegible] 6	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
[illegible]E, TUNNEL [illegible]93	A [illegible]70	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
[illegible]45	2?61	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
[illegible]A [illegible]AKE 1095	A 1?22	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
[illegible]E WAINIHA PL 1.08A	2227	01	HANALEI	1	22 09	159 34	090				S	MC BRYDE SUG CO LTD
[illegible]ALIHIWAI RES 1131	A 2?74	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
[illegible]ANALOHULUHULU 1075	3039	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
[illegible]NEHA RESERVOIR 1092	A 3?04	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
[illegible]APAA STABLES 11[illegible]	A 3?79	01	KAWAIHAU	1	22 05	15? 20	175		7A		C	LIHUE PLTN CO LTD
[illegible]ALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
[illegible] KANA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
[illegible]UFA 1 34	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
K[illegible] F [illegible]0 1[illegible] 135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
[illegible]LAUEA POINT [illegible]133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
[illegible]TANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
[illegible] 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
[illegible]A 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
[illegible] MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
[illegible]O RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
[illegible] LA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
[illegible]E VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
[illegible]E 1 2?	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
[illegible] WB AP 102 .1	R 5580	02	LIHUE	2	21 59	159 21	103	M10	M10	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6?82	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M[illegible] 10[illegible]	6?97	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI [illegible] 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		M10		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		M10		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
[illegible] WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
[illegible] WAILUA RIVER 1?55	A 6893	02	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
[illegible]WAINIHA 1115	8?55	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1006	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A 8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A 0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 8?7	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5R			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUROKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
[illegible]SETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 77192	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
[illegible]K LOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
[illegible] LUL[illegible] OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
HONOLULU WBFC 703	R 1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C J	U S WEATHER BUREAU
HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	M10	M10		C	ESSA-WEATHER BUREAU
H S P A EXP STA 7?7	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.A	2269	02	HUNOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 88[illegible]	A 3741	05	WAGALUA	5	21 34	157 59	1180					WAIALUA SUCAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOLAU[illegible] CAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A 5650	04	WAIANAE	4	21 29	158 08	1500		VAR			U S NAVY
[illegible]UK[illegible]	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LOM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 79?	A 5766	04	WAIANAE	4	21 28	158 13	25		7A			CAPITAL INVEST CO
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240				C	CLARENCE LEE
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXRURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
P[illegible] WAHIAWA 810.2	A 81?2	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A 8316	02	HONULULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			P. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8964	01	KOOLAUPOKU	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 7?5	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			ALFRED J. PRATT
WAIANAE MAUKA 803	A 9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 835	A 9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A 9340	01	KUOLAUPOKU	1	21 30	157 51	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VALLEY SCH 723.6	95?0	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	95?3	01	KOOLAUPOKO		21 20	157 43	80	7A	7A			WAIMANALO EXP FARM
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 75?	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	99??	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2196	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6	?346	01	MOLOKAI	1	21 04	156 52	60				C	W.J. CARSTEN
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MULUKAI RANCH LTD
KAUNAKAKAI MAKAI 536.?	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
[illegible] E B RES 551	A 4?74	01	MOLOKAI	1	21 12	157 12	560					MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 547	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A 6?70	01	MOLOKAI	1	21 08	157 13	1070		9A		C	LIBBY MCNEILL & LIBBY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUUOHOKU RANCH 542.?	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
[illegible]KOL[illegible] 54	A 9??4	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 890	A 3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370				C	ST. DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430				C	DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LKHEED SP & MSLE DIV
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL RARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 345	A 4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			KIPAHULU CATTLE COMPANY
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO
NAKALELE -FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386	9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870	VAR				KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1520		VAR		C	HILO COUNTRY CLUB
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	M10	M10	M10	C J	U S WEATHER BUREAU
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		VAR			KOHALA DITCH CO LTD
HONOMU MAUKA 138	196?	02	S HILO	2	19 51	155 09	1100		7A			PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A 215?	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1340		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAUHANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		6A		C	CLOSED 4/30/70
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA AIRPORT 68.3	4764	04	N KONA	4	19 39	156 01	17	8A	8A		C	HAWAIIAN AIRLINES
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE MIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300				C	MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF LGN RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103		8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES TEMP.	PRECIP	EVAP	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII													
NAPOOPOO 28	A	6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6		6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A	6806	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223		7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIMALE 2 24.1		7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A	7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217		7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULO 221		7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21		7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65		7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAD 37	A	7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO. INC.
PAPAIKOU 144.1		7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 1-0.1		7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144		8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A	8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FOPESTRY
POHAKULOA 107	A	8063	04	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A	8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. RAPP
PUU KIHE 120	A	8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A	8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A	8460	04	N KONA	4	19 34	155 49	4680					GREENWELL RANCH
PUU MALI 113	A	8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUMAU 167	A	8548	01	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82		8550	02	S HILO	2	19 44	155 23	6340		6A			DON WINTERS
PUU WAAWAA 94.1	A	8555	05	N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A	8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A	8675	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UNIKOA 118		8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCO 88.2		9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 178.6		9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH
CLOSED STATIONS ISLAND OF HAWAII													
KAUMANA 88.1		3510	02	S HILO	2	19 41	155 09	1123		6A		C	CLOSED 4/30/70

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 8-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960

STATION NAMES Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry

\+ And also on an earlier date or dates

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

B Adjusted to a full month

J "Supplemental Data" table

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

AR Observation made after rain

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable

WE Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

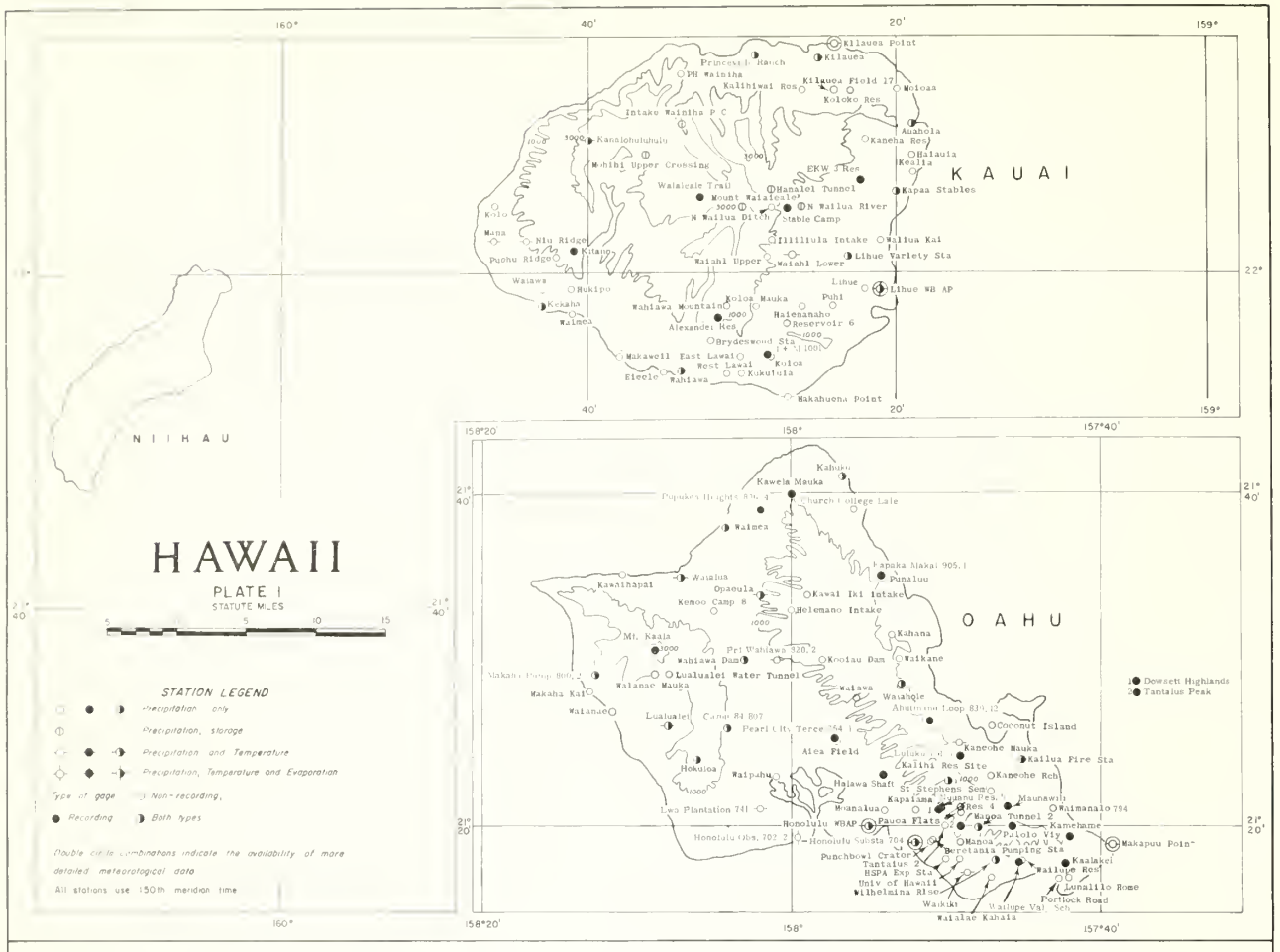
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

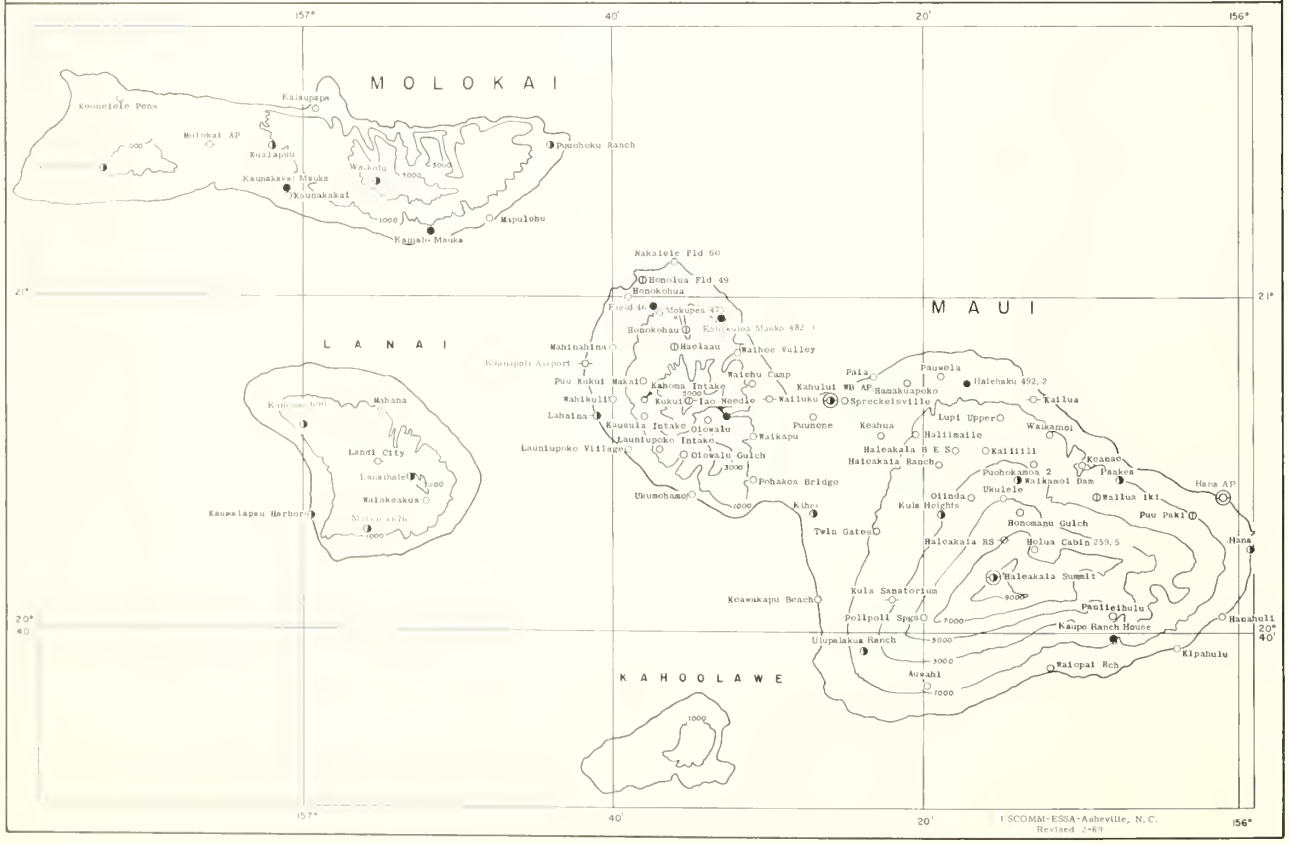
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

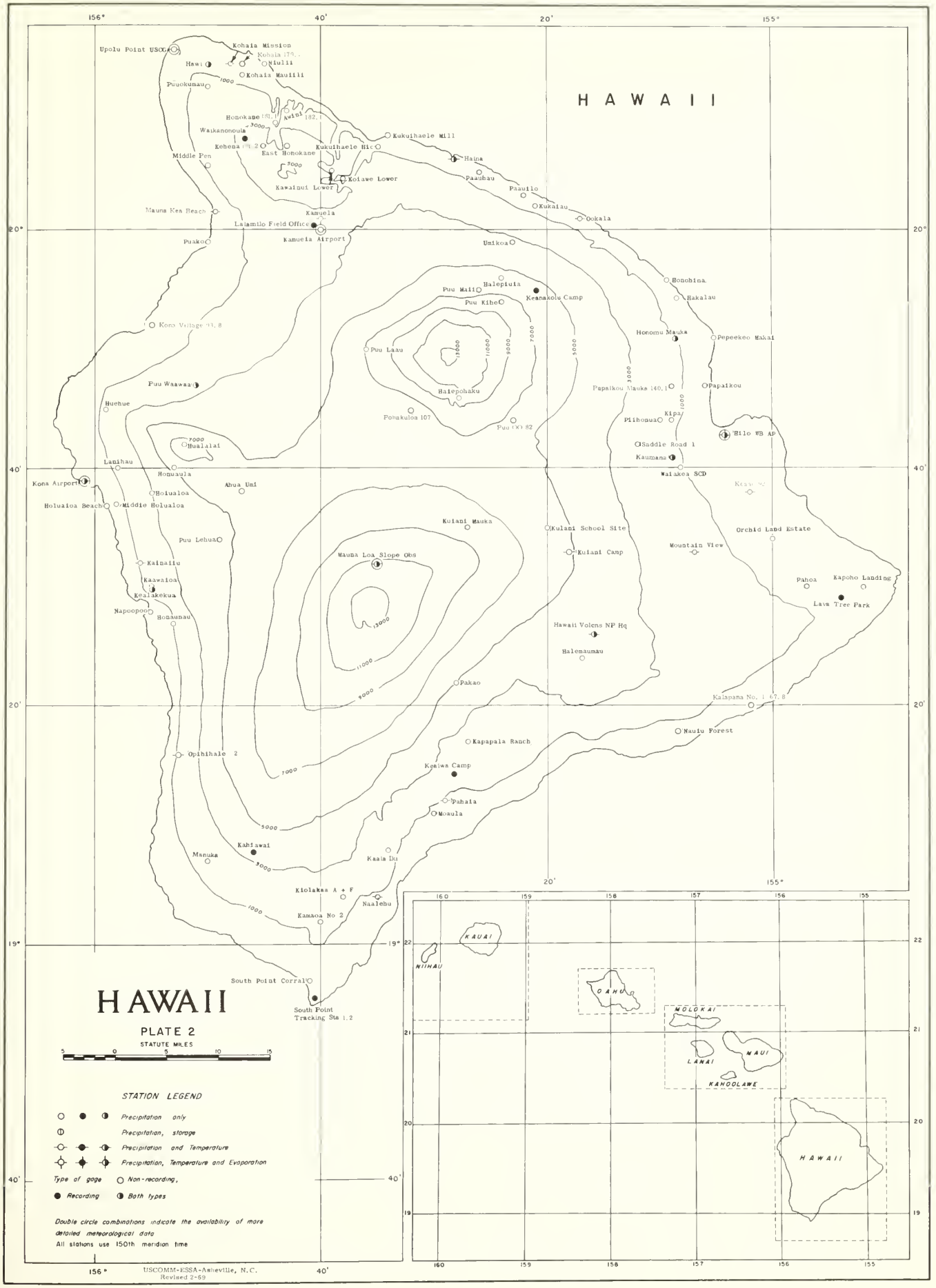
Subscription Price 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

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USCOMM-ESSA-Asheville, N.C.
Revised 2-69


HAWAII
Upolu Point USCG
Kohala Mission
Hawi
Niulii
Kohala Mauiili
Puuokumau
Honokane
Awini
Waikanonoula
Kohena
East Honokane
Kukuihaele Mill
Kukuihaele Hlc
Middle Pen
Haina
Koiawe Lower
Kawainui Lower
Paauhau
Paauilo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Hakalau
Halepiula
Puu Mali
Puu Kihe
Keamakolu Camp
Kona Village 93.8
Honomu Mauka
Pepeekeo Makai
Puu Laau
Puu Waawaa
Papaikou Mauka 140.1
Papaikou
Huehue
Halepohaku
Pohakuloa 107
Puu (X) 82
Pihonua
Kipa
Hilo WB AP
Saddle Road 1
Kaumana
Hualalai
Lanihau
Waiakea SCD
Honuaula
Kona Airport
Ahua Umi
Holualoa
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Mauna Loa Slope Obs
Kulani Camp
Mountain View
Kainaliu
Kaawaloa
Keelakekua
Pahoa
Kapoho Landing
Lava Tree Park
Napoopoo
Honaunau
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 67.8
Nauiu Forest
Kapapala Ranch
Opihihale 2
Keauwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kaala Ikn
Kiolakaa A + F
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1.2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
PLATE 2
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
USCOMM-ESSA-Asheville, N.C.
Revised 2-69

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JUNE 1970

Volume 66 No. 6

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OCT 19 1970

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days: Max. 90° or Above	Max. 32° or Below	Mn. 32° or Below	Mn. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days: .10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																								
ANAHOLA 1114	A														1.43	- .22			.0	0		0	0	
KANALOHULUHULU 1075		73.4	50.5	62.0		78	9+	41	28		0	0	0	0	.36		.09	24	.0	0		0	0	0
KAPAA STABLES 1104	A														1.78				.0	0				0
KILAUEA FIELD 17 1135	A														5.20	.15			.0	0				
KILAUEA POINT 1133		80.7	68.8	74.8		82	26+	60	28+		0	0	0	0	1.46		.24	24	.0	0		6	0	0
KOLOA 936	A														3.23	- .46			.0	0				0
LIHUE WB AP 1020.1	R	83.0	73.9	78.5	1.9	84	30+	67	4		0	0	0	0	.77	- .69	.15	30	.0	0		2	0	0
MANA 1026		88.4	65.9	77.2	.5	91	19+	62	2		6	0	0	0	.00	- .64	.00		.0	0		0	0	0
N WAILUA DITCH 1051	A														11.67				.0	0				
PH WAINIHA 1115															4.64	- 1.34	1.64	25	.0	0		10	3	1
PUEHU RIDGE 1040															.35		.35	12	.0	0		1	0	0
WAHIAWA 930	A														1.50	.18			.0	0			0	0
WAIAHI LOWER 1054		81.1	65.8	73.5		85	27	61	4+		0	0	0	0	7.24		.72	29	.0	0		20	6	0
WAIMEA 947															.08	- .20	.08	12	.0	0		0	0	0
ISLAND				73.2											2.84				.0					
* * * ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															.04		.02	26+	.0	0		0	0	0
HONOLULU WBFO 703	R	88.0	74.2	81.1	3.2	90	14+	70	28		2	0	0	0	.23	- .10	.12	27	.0	0		1	0	0
KAHUKU 912	A	83.1M	71.2M	77.2M	.5	86	15	66	4		0	0	0	0	1.43	.02			.0	0			0	0
KANEOHE MAUKA 781		81.2	71.1	76.2	.3	83	20+	68	27+		0	0	0	0	2.10	- .84	.73	21	.0	0		6	1	0
KOOLAU DAM 833															9.61	1.39	1.60	21	.0	0				
LUALUALEI 804		86.3	72.4	79.4		89	22+	66	1		0	0	0	0	.08				.0	0		0	0	0
MAKARUO POINT 724		77.6	66.7	72.2		82	5	61	10		0	0	0	0	.38	- .12	.13	25	.0	0		1	0	0
NUUANU RES 4 783															7.14	- .01	1.28	20	.0	0		15	5	2
ORAEULA 870	A	80.1	65.3	72.7	1.1	85	7+	61	5+		0	0	0	0	2.28	- .32			.0	0				0
RALOLO VALLEY 718															10.40	1.61	1.70	20	.0	0		18	9	3
PRI WAHIAWA 820.2	A	84.1	65.7	74.9		88	1	61	4+		0	0	0	0	1.01				.0	0			0	0
PUNALUU 884	A														2.50				.0	0				0
WAHIAWA OAM 863	A														1.23		.30	16	.0	0			0	0
WAIAHOLE 837	A														5.55	- 2.45			.0	0				
WAIALUA 847	A	85.4	66.0	75.7	.4	89	15+	59	4		0	0	0	0	.14	- .58	.07	24	.0	0		0	0	0
WAIKIKI 717.2		85.0M	72.9M	79.0M		87	27+	67	3		0	0	0	0	.08		.02	25+	.0	0		0	0	0
WAIMANALO EXP FARM		83.2	72.3	77.8		85	15+	69	26+		0	0	0	0	.50		.10	25	.0	0		1	0	0
WAIPAHU 750	A														.40	- .20			.0	0			0	0
ISLAND				76.6											2.51				.0					
* * * ISLAND OF MOLOKAI																								
KUALARUU 534	A														.39	- .28	.17	30	.0	0		2	0	0
MARULEHU 542															2.47	.28	.91	28	.0	0		9	1	0
MAUNALOA 511	A														.00	- .75	.00		.0	0		0	0	0
MOLOKAI AP 524		82.7	70.6	76.7		85	28+	68	19+		0	0	0	0	.06		.05	17	.0	0		0	0	0
ISLAND				76.7											.73				.0					
* * * ISLAND OF LANAI																								
LANAI CITY 672	A	77.4M	63.4M	70.4M	.3	85	11	50	22		0	0	0	0	1.47	.05	.55	5	.0	0			1	0
ISLAND				70.4											1.47				.0					
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														.76	- 2.02	.25	17	.0	0		2	0	0
HALEAKALA RS 338		67.4	47.0	57.2		74	10+	36	4		0	0	0	0	.34		.12	4	.0	0		1	0	0
HANA AIRPORT 355		83.2	69.4	76.3		85	15+	67	15+		0	0	0	0	4.24		.55	29	.0	0		15	2	0
HONOKOHUA 493	A														1.98	.30			.0	0				0
KAANARALI AIRPORT		M	M	M							0	0	0	0					.0	0				
KAHULUI WB AR 398	R	87.2	69.4	78.3	1.1	90	14+	62	15		2	0	0	0	.02	- .16	.01	30+	.0	0		0	0	0
KAILUA 446		77.5	66.8	72.2	.3	79	16+	65	24+		0	0	0	0	7.52	- .04	1.13	29	.0	0		16	8	1
KEANAE 346	A														9.40	- 4.37			.0	0				
KIPAHULU 258															5.38	- 2.38	.64	25	.0	0		16	2	0
KULA SANATORIUM 267		72.4	54.9	63.7	- 1.2	76	7	51	18		0	0	0	0	.40	- 1.29	.10	12+	.0	0		2	0	0
LAHAINA 361		85.9	68.1	77.0		89	15	65	3+		0	0	0	0	.00	- .06	.00		.0	0		0	0	0
RAIA 405															.39	- .80	.10	17	.0	0		1	0	0
WAILUKU 386		81.8M	70.7M	76.3M	- .1	84	29+	68	1		0	0	0	0	T	- .34	T	4+	.0	0		0	0	0
ISLAND				71.6											2.54				.0					
* * * ISLAND OF HAWAII																								
HAINA 214		80.6	66.6	73.6	.6	83	28+	64	20+		0	0		0	1.28	- .64	.34	19	.0	0		3	0	0
HAWAII VOLCNS NP HQ 54		69.3	54.6	62.0	.0	83	27	50	3		0	0	0	0	2.94	- 1.59	.31	29	.0	0		11	0	0
HILO WB AIRPORT 87	R	81.7	65.7	73.7	- .6	84	21+	62	26		0	0	0	0	5.60	- 1.19	.75	28	.0	0		20	2	0
HUEHUE 92.1	A														.95	- 3.55			.0	0			0	0
KAINALIU 73.2		78.0	63.8	70.9		81	23	61	4		0	0	0	0	4.71	- 3.24	.71	28+	.0	0		13	3	0

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII JUNE 1970

Station	Temperature												Precipitation									
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days Max. 90° or Above	No. of Days Max. 32° or Below	No. of Days Min. 32° or Below	No. of Days Min. 0° or Below	Total	Departure From Normal	Greatest Day	Date	Snow, Sleet Total	Snow, Sleet Max. Depth on Ground	Snow, Sleet Date	No. of Days .10 or More	No. of Days .50 or More	No. of Days 1.00 or More
KAMUELA AIRPORT 191	73.7	53.6M	63.8M		78	9				0	0	0	0	.82		.14	18+	.0	0		5	0	0
KEAHU 92	82.0	65.9	74.0	.3	84	27+	64	27+		0	0	0	0	5.94	- 1.92	.92	28	.0	0		19	3	0
KEALAKEKUA 26.2	77.4	64.7	71.1		80	23+	62	5+		0	0	0	0	3.37		.71	15	.0	0		8	3	0
KONA AIRPORT 68.3	81.7M	65.9M	74.8M		86	23+	62	7+		0	0	0	0					.0	0				
KUKUIHAELE HIC 199														2.68	- .36	.51	18	.0	0		8	1	0
KUSHNI CAMP 79	64.1	46.8	55.5		69	14	36	1		0	0	0	0	2.09		.25	28	.0	0		9	0	0
PAHALA 71	78.8M	63.4M	71.1M	- 1.1	81	30+	60	20		0	0	0	0	1.12	- .21	.80	4	.0	0		2	1	0
POHAKULOA 107 A														*				.0	0				
PUAKO 95.1 A	86.9	71.5	79.2		90	23	68	3		1	0	0	0	.65		.59	14	.0	0		1	1	0
PUU WAAWAA 94.1 A														.27	- 1.85			.0	0			0	0
UMIKOA 118														3.02	1.32	2.20	4	.0	0		4	1	1
WAIAKEA SCD 88.2														9.55				.0	0				
ISLAND			70.0											3.00				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93 ON THE 24TH AT WAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 34 ON THE 6TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 21.70 AT EAST HONOKANE 1A3.2, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 19 STATIONS

GREATEST ONE-DAY PRECIPITATION: 2.64 ON THE 20TH AT PAUOA FLATS 784, OAHU

See Reference Notes Following Station Index

DAILY PRECIPITATION

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																
ISLAND OF KAUAI																																
ANAHOLA 1114	A	1.43	.22					*	*	.10		.02		.02	*	*	.02		.16	.05	.03	*	*	.30	.05	.05		.19	*	*	.16	.06	
BRYDESWOOD STA 985	A	2.48	.07				.05	*	*	.05		.01	.02	.04	*	*	.02	.07	.09	.03	.01	*	*	.75	.01	.17	.34	.05	*	*	.42	.28	
EAST LAWAI 964	A	4.09	.15		T		.02	*	*	.13		.01		.05	*	*	.29	.10	.17	.06	.02	*	*	.80	.01	.21	.46	.30	*	*	.81	.50	
ELEELE 927	A	1.07	.06					*	*	T				T					.06	.01		*	*	.20		.12	.11		*	*	.38	.13	
HALAULA 1110	A	1.77	.27	.02				*	*	.17		.02							.11	.05	.06	*	*	.22	.29	.04		.20	*	*	.25	.07	
HALENANAHO 1000	A	3.23	.34		.03		.06	*	*	.24		.02		.09	*	*	.19	.08	.16	.11	.06	*	*	.74		.07	.26	.18	*	*	.26	.34	
HUKIPO 945		.00																														
ILILILIULA INTAKE 1050	A	10.60	.73		.03	.01	.01	*	*	.68	.06	.04	.04	.19	*	*	.73	.34	.60	.07	.10	*	*	1.97	.25	.66	1.02	.42	*	*	1.90	.75	
INTAKE WAININHA PC 1086	A	4.90	*	*	*	*	.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.55	*	*	*	1.91	*	*	1.09	*	
KALIHIWAI RES 1131	A	6.01	.61	.01				*	*	.51	.01	.04	.30	.09	*	*	.49	.06	.08	.02	.04	*	*	1.18	.03	.06	.72	.31	*	*	1.12	.33	
KANALOHULUPULU 1075		.36												.03					.03	.02		.03	.06	.01		.09	.06		.03			
KANEHA RESERVOIR 1092	A	4.03	.52	.05				*	*	.59		.03	.02	.10	*	*	.10	.05	.20	.05	.05	*	*	.80	.33	.08	.10	.36	*	*	.50	.10	
KAPAA STABLES 1104	A	1.78	.70					*	*	.10									.05		.03	*	*	.13		.04		.19	*	*	.30	.24	
KEALIA 1112	A	1.37	.36	.03				*	*	.05		.05						.05	.06	.03	.05	*	*	.13	.04	.04	.07	.10	*	*	.25	.06	
KEKAHA 944		.19												.19																		
KILAUEA 1134	A	2.70	.24		.05			*	*	.29		.02	.03	.02	*	*	.22	.04	.09	.02	.04	*	*	.15	.02		.41	.09	*	*	.54	.44	
KILAUEA FIELD 17 1135	A	5.20	.52	.01				*	*	1.37	.02	.01	.02	.03	*	*	.74	.12	.07	.03	.04	*	*	.68	.02	.01	.45	.21	*	*	.63	.22	
KILAUEA POINT 1133		1.46		.04		.01		.01	.09		.01		.02	.01	.02		.10	.08	.02	.03	.03	.16	.02	.03		.24	.15	.14		.11	.07	.07	
KOLO 1033		.00																														
KOLOA 936	A	3.23	.20			.02	*	*	.21			.07	.15	*	*	*	.30	.13	.13		.02	*	*	.69	.02	.07	.19	.37	*	*	.30	.36	
KOLOA MAUKA 994	A	5.17	.28			.06	*	*	.26			.06	.19	*	*	*	.23	.19	.14	.10	.11	*	*	.96	.05	.19	.51	.21	*	*	1.05	.58	
KOLOKO RES 1137	A	5.52	.33				*	*	1.98			.01	.02	.04	*	*	.86	.06	.01	.01	.11	*	*	.50	.03	.02	.39	.19	*	*	.59	.37	
KUKUIULA 935	A	1.33	.15			.01	*	*	.10					.02	*	*	.01	.05	.03	.01	T	*	*	.43	.01	.03	.14	.10	*	*	.13	.11	
LIHUE VARIETY STA	A	2.95	.01		.01	.02	*	.05	.06			.01		.02	.06	*	.02	.30	.13	.09	.07	*	.51	.10		.04	.26	.37	.06	*	.27	.47	
LIHUE 1020	A	1.54	.28	.02	.02		.05	*	*	.07	.01		.05	.05	*	*	.03	.03	.04	.05	.05	*	*	.23	.13	.03	.03	.09	*	*	.12	.15	
LIHUE WB AP 1020.1	R	.77	T		.01		.01		.02	T		.04	T	.04	T			.03	T	.03	.04	.05	.03	.12	T	.07	.06	.02		.01	.04	.15	
MAKAHUENA POINT 940.1		1.25								.10				.07					.08			.20	.48		.02	.08	.05	.05	.02	.01	.13	
MAKAWELI 965	A	.25																			.02	.05			.04	.01		.08	.03	.01	.01	
MANA 1026		.00																														
MOHIHI UPR CROSS 1083	A	1.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.60					.10		.31		.10	.21			.21	
MOLOAA 1145	A	1.17	.09					*	*	.17									.03		.05	*	*	.18			.15	.05	*	*	.20	.25	
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035		.05												.05																		
N WAILUA DITCH 1051	A	11.67	1.00				.10	*	*	.60	.10		.10	.30	*	*	1.00	.25	.76	.20	.25	*	*	2.10	.36	.30	.90	.50	*	*	2.10	.75	
PH WAININHA 1110		4.64	.05					.01	.05	.08				.01	.10	T		.07	.20	.02	.05	.20	.59	.09	.01	.08	1.64	.32	.18	.13	.26	.50	
PRINCEVILLE RANCH 1117		3.46						.10	.15	.11				.09	*	*	.25	.15	.05		.03	.05	.57	.03	.07	.55	.11	.14	.09	.10	.50	.32	
PUEHU RIDGE 1040		.35												.35																		
PUHI 1013	A	2.31	.35		.03		.05	*	*	.11		.04	.08	.04	*	*	.02	.07	.15	.06	.05	*	*	.45	.09	.05	.12	.17	*	*	.21	.17	
RESERVOIR 6 1004	A	3.12	.24				.04	*	*	.19				.09	*	*	.12	.13	.11	.05	.03	*	*	.83		.13	.25	.18	*	*	.39	.34	
WAHIAWA 930	A	1.50	.05					*	*	.05					*	*	.04	.01	.05	.01		*	*	.36		.13	.22	.05	*	*	.28	.25	
WAHIAWA MOUNTAIN 990	A	13.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.50	
WAIAHI LOWER 1054		7.24	.44			.01	.01	.04	.14	.19		.04	.10	.14	.22	.19	.24	.28	.33	.06	.02	.45	.61	.10	.02	.10	.70	.66	.63	.27	.72	.53	
WAIAHI UPPER 1052		9.10	.45	.02	.01			.10	.23	.18	.01	.04	.07	.15	.32	.30	.10	.06	.54	.05	.05	1.05	.80	.15	.18	.13	1.15	.85	.44	.30	.65	.69	
WAIAWA 943		.04												.03										.01								
WAILUA KAI 1065	A	1.24	.18					*	*	.05					*	*	.11			.07		*	*	.32	.04		.11	.09	*	*	.22	.07	
WAIMEA 947		.08												.04																		
WEST LAWAI 931	A	1.81	.08					*	*	.08				.03	*	*	.08	.04	.10	.03		*	*	.52		.04	.27	.13	*	*	.16	.21	
* * *																																
ISLAND OF OAHU																																
AIEA FIELD 625 701	A	1.24	.04	.07						.04									.10					.42			.12				.26	.19	
BERETANIA PUMPING STA		.47		.01								T		T		.07			.02			.11	.01			.02	.02	.08	T	.06		.07	T	
CAMP 84 807	A	.44	*	.07										*	*	*	*					.07	*	.11	*	*		.01	*	*	*	.14	*	
CHURCH COLLEGE LAIE		1.75	.04	.06	.01	.02		.04	.07	.03				.01	.02		.01	.02	.01	.01		.14	.36	.08	.04	.2	.03	.10	.03		.25	.05	
COCONUT ISLAND 840.1		.57				.03									.01							.13	.05	.07	.12	.02	.03	.02		.04	.05		
EWA PLANTATION 741		.10													.02							.04	.02					.02				
HELEMANO INTAKE 841	A	3.35	.13	*	*	*	*	*	*	.20	*	*	.10	*	*	*	.34	*	*	.2	*	*	*	1.23	*	*	.37	*	*	*	.76	*	
HOKULOA 725.2	A	1.16	*	*	*	*	*	.1	*	*	*	*	*	*	*	*	*	.26	*	*	*	*	*	*	*	*	*	*	.27	.29	.20	*	
HONOLULU OBSERV 702.2		.04																				.02	T			T	T	.02		T	T	
HONOLULU WBAS 703	R	.23	T	.01			T		T			T	.05	.01	.01			T	T	T	T	.02	T	T	T	T	T	T	.12	T	T	T	
HONOLULU SURSTA 704		.30																.03				.08				.02		.04	.02	.09	.01		.01	
H S P A EXP STA 707		.85		.02								T		.01	.12	.03		.01	.03		T	.15	.03	T	.03	.04	.14	.01	.07	.08	.03	.05	
KAHANA 883	A	-	*	*	*	*	*	*	*	1.16	*	*	*	*	*	*	*	2.90	*	*	*	*	*	7.60	-	-	-	-	-	-	-	*	
KAHUKU 912	A	1.43	.10	.02	.01	.02		*	*	.15	.01				*	*	.05	.01	.01	.01	*	*	*	.21			.10	.03	*	*	.44	.05	
KAILUA FIRE STA 791.3		.83	.02	.10	T				T	T			T								.05		.03	.20	.30	.01		.03				.09	
KALIHI RES SITE 777		7.14	.02	.04	.01	.04	.10	.31	.04	.04			.20	.21	.26	.90					.10	1.54	.62	.06		.48	.34	.44	.02	.14	.92	.18	
KANEOHE MAUKA 781		2.11	.03	.01		.01	.01		.01	.02					.01	.22		.01			.01	.07	.73	.13	.05	.04	.19	.09	.12		.23	.09	
KANEOHE RANCH 838	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAPALAMA 773	A	3.41	.04												*	*	1.00					*	*	.60	.02	.25		.23	*	*	1.20	.06	
KAWAIHAPAI 841	A	.32	.12			.04									*	*	.03		T			*	*	T		.08		.03	*	*	.01	.01	
KAWAI 1K1 INTAKE 880.2	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KEMOO CAMP 8 855	A	.73	.30		.01									.01	*	*	.01		.01	*	*	*	*	.12	*	.07	*	.07	*	*	.08	.05	
KODLAU DAM 833		9.61	*	.22	.13	.05	*	*	*	.16	.03	*	*	*	*	.52	.03	.48	1.34	.05	*	1.27	1.61	.40	.25	.73	*	.96	.11	.07	.65	.56	
LUALUALEI 804		.08											*	.01								*	*	.03					*	.04		
LUALUALEI WTR TUNNEL	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
LUNALILO HOME 724.2		.31	.15	.05									*	.05									*	.06								
MAKAHA KAI 796	A	.00																														
MAKAHA PUMP 800.2	A	.38																											.38			
MAKAPUU POINT 724		.38		.06								.02	.01	.01					.01			.02	.02			.01	.13	.04	.05			
MANOA 712		6.25						.04					.04	.14	.41	.16	.04		.09	.01		.25	.45		.55	.9	.82	.90	.22	.52	.24	.36	
MANOA TUNNEL 2 716		11.72	.04	.18				.2		.02		.32	.38	.40	.58	.46	.08	.02			.32	2.32	.44	.08	.14	.62	1.14	.88	1.00	.34	1.16	.60	
MOANALUA 770		.88											.01	.11				.04	.02	*	*	*	.17		.02	.08	.06	*	*	*	.34	.03	
NUUANU RES 4 783		7.14		.16				.1	.02			.20	.68	.36	.24	1.00					.02	1.28	.46	.04		.80	.48	.56	.16	.08	.12	.32	
NUUANU RESERVOIR 5 775	A	6.25		.11				*	*	.01		.05	*	.04	*	*	.60	.22	.05		T	*	*	.11	1.35	.37	.69	.07	*	*	1.87	.12	
OPAEULA 870	A	2.23		.03	.10					.05			.01	.01	*	.26		.05	.31	.02		*	.6	.03	.04	.11	.18	.09	*	.25	.07	.07	
PALOLO VALLEY 718		10.40	.06	1.16				.1	.02			.24	.16	.27	.70	.52	.04	.12			.08	1.70	.48	.04	.14	.48	1.08	.58	.80	.20	.90	.60	
PAUOA FLATS 784		16.69	.08	.44	.02	.04	.06	.3				.58	.66	1.04	1.18	1.16	.08	.26	.06	.02	.26	2.64	.97	.04	.28	1.00	1.12	1.02	.32	.60	1.76	.76	
PORTLOCK ROAD 724.4		.19	.01	.01									.01		.02									*	*	.06	.07				.01		
PRI WAHIAWA 820.2	A	1.01		.02								T			*	*	.06	.02	.08			*	*	.27		.12	.02	.04	*	*	.37	.01	
PUNALUU 894	A	2.50	.31	.05	.07			*	*	.18					*	*	.12	.06		.04		*	*	.60	.03	.23	.25	.09	*	*	.33	.14	
PUNCHBOWL CRATER 709	A	1.01		.05	.02			.01						.03	.18	.02	.01	.03	.03			.16	.08		.05	.06	.12	.05	.02	.02	.03	.05	
ST STEPHENS SEM 788		2.04	.03	.13		.01		.02		.01			T	.04		.18						.23	.48	.08		.03	.21	.07	.17		.21	.12	
TANTALUS 2 780.5		9.64		.31	.06			.04			.01	.03	.25	.53	.62	.45	.03	.16	.32	.01	.05	.48	1.24	.08	.11	*	1.40	.51	.62	.78	.88	.62	
UNIV OF HAWAII 713	A	1.32	.03	.07	T								*	.02	*	*	.15	T	.02		.01	*	*	.20	.02	.10	.29	.02	*	*	.30	.09	
WAHIAWA DAM 963	A	1.23	.12		.02			*	*	.01					*	*	.02	.30	.17			*	*	.16		.12		.12	*	*	.18	.01	
WAIAHOLE 837	A	5.55			.12	.03		*	*	.26		.02		.04	*	*	.34	.09	.04	.07	.02	*	*	2.38	.11	.25	.31	.12	*	*	1.06	.29	
WAIALAE KAHALA 715		.25		.03	T							T		T	T	.02					T	.02	T	T	.02	.02	.10	T	.02	T	.01	.01	
WAIALUA 847	A	.14			T													T						T		.07		.06	.01			
WAIANAE 798.2	A	.04													T	T	T						T						.06			
WAIANAE MAUKA 803	A	3.27	*	*	.28	*	*	.01	*	*	*	.01	*	*	.10	*	*	*	.46	*	*	.16	*	*	*	1.15	*	*	1.05	*	*	*	
WAIAWA 836	A	11.47	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.49	
WAIKANE 895	A	4.24	*	*	*	*	*	*	*	.48	*	*	*	*	*	*	*	.36	*	*	*	*	*	2.24	*	*	*	*	*	*	1.16	*	
WAIKIKI 717.2		.04		.01											T	.01							T	T	.02	.01	.02	.01		T	T	
WAIMANALO EXP FARM		.50		.08														T	.19	.05					.03		.10		.08			.07	
WAIMEA 892	A	2.37	.41	.03				*	*	.10					*	*	.20	.12	.17	.04		*	*	.65	.02	.13	.12	.05	*	*	.30	.05	
WAIPAHU 750	A	.40	.27																			*	*	.05				.04	*	*	.04		
WILHELMINA RISE 721		1.56	.02	.06										.08	.28	.02		.04				.12	.06	.02	.02	.1	.42	.04	.06	.02	.08	.08	

See reference notes following Station Index.

DAILY PRECIPITATION

(Continued)

HAWAII
JUNE 1970

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																
*ALAUPAPA 563	A	1.33	*	*	*	.31	.14	*	*	*	*	*	*	*	*	*	.12	.04	*	*	.11	.07	.01	*	.04	.12	.03	*	*	.16	.06	.09	
*AUNAKAKAI 536	A	.01																														
*EDWARDS AFB PENS 55.	A	.01																														
*KUALAPUU 534	A	.39					.05												.10	.01	T			.01		.04	T			*	.01	.17	
*MAPULEHU 5+2		2.47	.15			.03			.05				.15	.14	.04			.08			.20	.07			.11	.09	.02	.16	.12	.91	.04	.11	
MAUNALOA 511	A	.00																														
MOLOKAI AP 524		.06					T								T				.05			T	T			.01		T				
PUUOHOKI RANCH 542.1		1.42	.04		.14	.33	.01					T	.01			.02		.01	.04	.07	T	T	.23	T	.01	.01	.07	.01	.08	.21	.03	.10	
*WAIKOLU 540	A	4.31	*	*	.45	*	*	*	*	*	.28	*	*	*	*	*	*	.65	*	*	*	*	*	*	1.25	*	*	*	*	*	*	1.68	
ISLAND OF LANAI																																
KANEPUU 690	A	.34	*	*	*	.01	*	*	*	*	*	*	.15	*	*	*	*	*	*	.07										*	*	.11	
KAUMALAPAU HARBOR 658	A	.06																														.02	
LANAI CITY 672	A	1.47					.55	*	*	.02				.14	*	*	.09	.01	.01	.01	T	T	*	.31		.04	.04	.03	.07	*	.15	T	
LANAIMALE 684	A	1.95	*	*	*	*	*	1.23	*	*	*	*	*	*	.20	*	*	*	*	*	*	.20	*	*	*	*	*	*	.32	*	*	*	
MAHANA 694	A	.14	*	*	*	.02	*	*	*	*	*	*	.12																			T	
MALAUEA 676	A	T																														T	
*WAIAKEAKUA 685	A	.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.12	
ISLAND OF MAUI																																
AUWAHI=252	A	.45	*	*	*	.03	*	*	*	*	*	*	*	*	*	.10	*	*	*	*	*	.17	*	*	*	*	*	*	*	*	*	.15	
MALEAKALA B E S 434	A	.76		.01		.02	.02						.04	.02	.01				.23	.15			.01	.02	.02	.03	.05			.05	.08		
MALEAKALA RANCH =32	A	.00																															
MALEAKALA RS 338		.34	T			.12	.04						.02										T	.03					.06	.04	.03	
MALEAKALA SUMMIT 338.4	V	2.42	.04																											*	*	.11	.10
MALIIMAILE 423	A	.88											.04	*	*	.03	.02	.18	.17	.04	.02	*	.03	.02	.05	.03	.05	.06	*	*	.07	.07	
MAMAKAPOKO 485		1.99		.05		T	.05	.03		T				.03	.03		.02	.21	.11	.02	.07	.15	.07	.08	.25	.16	.11	.10	.18	.21	.06	
MANA 354		3.24	.08	.01	.03	.12	.03	.01	*	.09			.11	.05	*	.10	.08	.28	.01		.31		*	.76	.11	.06	.18	.02	.35	*	.40		
MAUI AIRPORT 355		4.24	.02	T		.32	.02	.11	.05	.02			.12	.07	.11	.08		.10	.28	T	.03	.45	.3*	.14	.15	.09	.51	.02	.36	.17	.55	.14	
MANAHULI 281		4.97	.25		.03	.32	.10	.07	.14				.24			.18	.17	.20	.40	.10			.8*	.10	.08	.51	.05	.02	.48	.28	.35	.09	
MOLUA CABIN 259.5	A	.08	*	*	*	*	*	.01													*	*	*	*	*	*	*	*	*	.07	*	*	
MONOKOMAU 480	A	10.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.20	
MONOKOMUA 493	A	1.98	*	.03		*	.06	*	*	.07			.11	*	*	*	.09	*	.13	.12	*	*	*	.35	*	.06	.10	.10	*	*	.66	.10	
MONOHANU GULCH 341	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00	
*KAANAPALI AIRPORT		-	-	-					-				-		.05	-	-		.02	.01			-	-		.02	-	-	-	-	-		
KAHOMA INTAKE 374	A	2.19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.19	
KAHULUI WB AP 398	R	.02	T															.01	T	T	T	T	T		T	T	T	T	T	T	T	.01	
KAILILI 436	A	4.14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.14	
KAILUA 446		7.54	.03	.07	*	.25	.52	.3*	.02	.04	*	*	.01	.1*	.12	.08		.09	.78	.05	.09	.11	.80	.27	.10	.52	.76	.05	.52	.50	1.13	.14	
*KAUPULA INTAKE 375	A	1.53	.24	*	*	*	*	*	*	.08	*	*	*	*	*	*	.06	*	*	*	*	*	*	.31	*	*	*	*	*	*	.84	*	
KEAHUA 410		T																	T	T													
*KEANAE 345	A	9.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.40	
*KEAWAKAPU BEACH 260.2		.01																											.01				
KIHEI 311		.00																															
KIPAHULU 258		5.34					.31		.14				.18	.3*	.22		.32	.14	.44	.07		.35	.2*	.44	.36	.33	.64	.04	.26			.57	
KULA HEIGHTS 323.2		.00																															
KULA SANATORIUM 267		.40	T			.10	T						.09	.1*									T	.02					.06	.01	.02		
LAHAINA 361		.00																															
LAUNIUPOKO INTAKE 376	A	1.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.90	
LAUNIUPOKO VILLAGE 372	A	.09																															
LUPI UPPER 442	A	8.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.40	
MAHINAHINA 486	A	1.66					.17												.23				.1*	.10		.08			.12		.77		
NAKALELE =FLD 60-497	A	1.01	*	*	*	*	*	*	*	.09	*	*	*	*	*	*	.05	*	*	*	*	*	*	.30	*	*	*	*	*	*	.57		
OLINDA 332	A	1.20	.36	.01	T	.09	.03						*	.3*	*	*	.17	.03					*	.05	T				*	*	.07	.01	
OLOWALU 296		.0*																															
OLOWALU GULCH 377	A	4.44	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.40	
PAAKEA 353		10.9*		.13		.90	.26	.5*		.27			.05	.2*	.12	.33	.04	.65	1.14	.35	.27	.16	.55	.73	.08	.77	.81	.22	.35	.68	1.08	.21	
PAIA 406		.3*		.01			T											T	.10	.02	.01	.01	.01	.03	T	.09	.01	.02	.01	.04	.02	.01	
PANILEIHULU 259.2	A	1.87	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.80	*	
POHAKEA BRIDGE 307.2	A	.00																															
POLIPOLI SPRINGS 267.2	A	.97	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.97	
PUOMOKAMOA 2 343	A	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU KUKUI MAKAI 472	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.00	
PUUNENE 395		T		T															T				T			T							
SPRECKELSVILLE 400.2		.06																	.04	.01	T					T			.01				
TWIN GATES 261.3	A	.03																															
UKULELE 333	A	1.73	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.73	
UKUMEHAME 301	A	.00																															
ULUPALAKUA RANCH 250		1.75				.31																		.11					1.33				
*WAIKULI 364	A	.00																															
*AIEHU CAMP =84	A	.19	*	.06	*	.03	*	.01	*	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	.02	*	.04	*	*	*	*	*	*	
WAIHEE VALLEY 482	A	.29	*	.04	*	.06	*	.0*	*	*	*	*	*	*	*	*	*	*	*	.06	*	*	*	*	*	.06	*	*	*	*	.03	*	
*WAIKAPU 449	A	9.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.00	
WAIKAPU OAH 336	A	6.52	.56	.18	.01	.90	.42	*	*	.27	*	.07	*	.4*	*	*	.40	.10	*	*	.05	*	*	1.08	.14	.41	.29	.13	*	*	1.02	.03	
*WAIKAPU 390	A	.00																															
*WAILUKU 386		T	T			T																											
*WAIOPAI RANCH 256	A	.39		*	*	*	.34																										
ISLAND OF HAWAII																																
AHUA UMI 75	A	.30	*	*	*	*	*	*	*	*	*	*	*	1.0*	*	*	1.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	
AWINI 182.1	A	7.34	.32	*	*	*	.79	*	*	*	.24	*	*	*	*	*	*	*	*	*	*	*	*	*	.38	*	*	*	*	*	*	1.39	1.69	
EAST HONOKANE 183.2	A	21.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	21.70	
HAINA 214		1.28	.01	.01	.03	.05									.02									.18	.09	.02	.09	.06		.05			
HAKALAU 142		6.29		.14	.36	.12		.0*	.13	.23	.09	.01	.05	.07		.15	.16	.28	.32	.66	.31		.03	1.13	.02	.33	.10	.29	.28	.68	.25	.03	
HALEHAUMAU 52	A	.62	*	*	*	*	*	*	*	*	*	*	*	*	*	.3*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	
HALEPIULA 117	A	.31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.31	
HALEPOHAKU 111	A	.02																											.02				
HAWAII VOLCNS NP 4G 54		2.94		.01	.09	.12	.13	.03	T	.06	T	T	.07	.15	.06	.15	.05	.16	.09	.30	.09	T	.06	.10	.04	.35	.17	.03	.02	.23	.38	T	
HAWI 168	A	3.27	.03	.50	.10	.02		*	*	.08	.06	.01		.34	*	*	.44	.10	.30	.57	.17	*	*	.02	.06	.10	.06	.08	*	*	.22	.01	
HILO COUNTRY CLUB 86.6		9.08			.25	1.16	.05	.02	.05	.12			.10	.22	.02		.08	.02	.52	1.30	.72		.20	.10	.44	.50	1.44	.20	.05	.65	.87		
HILO WB AIRPORT 87	R	5.60	.10	.10	.23	.30	.02	.03	.15	.24	.01	.14	.03	.19	.05	.27	.14	.14	.44	.29	.03	.03	.03	.53	.23	.22	.27	.17	.36	.76	.09	.01	
HOLUALOA 70	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00	
HOLUALOA BEACH 68	A	2.82	.03				.20										.73		.04		1.60	.11									.11		
HONAUNAU 27		3.55	.04	.02	.01		.07	.10	.09	.02	.02	.13	.20	.23	.10	.46			.41	.14	.23	.10	.03	.02	.07	.05	.07	.24	.05	.10	.35	.20	
HONOHINA 137		6.53		.01	.28	.07			.16	.27	.07	.02	.05	.29		.15	.07	.14	.16	.86	.32		.04	1.20	.16	.30	.14	.33	.34	.82	.27	.01	
HONOKANE 181.1	A	4.57	.34	*	*	*	.18	*	*	.13	*	*	.61	*	*	*	.98	*	*	*	*	*	*	.35	*	*	*	*	*	*	*	2.00	
HONOMU MAUKA 138		11.40	.01	.26	.25	.88	.07	.03	.20	.27	.10	.07	.11	.72	.09	.64	.25	.15	.44	.94	.41	.02	.22	.92	.25	.59	.80	.51	.24	1.04	.90	.02	
HONUAULA 71	A	1.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	
HUALALAI 72	A	.7*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.60	
																																.70	
HUEHUE 92.1	A	.95	*	*	*	*	*	*	*	*	*	.30	*	*	*	.05	.15	*	*	.40	*	*	*	*	*	*	*	.05	*	*	*	*	
KAALA IKI 12	A	1.99				.25	.18	.03	T			.03	.07		.11	.13	.31			.09	.04			.20	.20		.06	.24	*	.01	.04		
KAAMALOA 29	A	3.72	.33				.14	*	*	.15		.02	*	.55	*	*	.88	T	.04	.05	.50	*	*	.51	.03	.01		.18	*	*	.35	.18	
KAINALIU 73.2		4.71	.32	T	.03		.12	.07	.06	.05		.03		.48	.04	.23	.70		.15	.10	.69	.34			.09	.12	T	.18		.70		.21	
*KALAPANA NO 1 67.8		2.98	T	T	.18	.20	.54	.01	T	.06	.03	*	*	*	.12	.20	.04	.05	.25	.10	.03	T	T	.04	.01	.01	.04	.06	.20	.43	.36	.02	
KAMAUA NO 2 5	A	1.65	*	*	*	*	*	*	*	*	*	*	*	*	.50	*	*	*	*	*	*	.85	*	*	*	*	*	*	*	.30	*	*	
KAMUELA 192.2		1.28		.07	.01					.10			.05												.05	.02		.02			.11	.07	.02	
*KAMUELA AIRPORT 191		.82	T	T	.02	T			T	.10	T	.03	.01		T	.14	.02	T	T	.14	.12	T		T	T	.02		T		.10	.09	.03	
*KAPAPALA RANCH 36	A	1.27	*	*	*	*	*	*	.90	*	*	*	*	*	*	.04	*	*	*	*	*	*	.1*	*	*	*	*	*	*	.14	*	*	
KAPOHO LANDING 93.5	A	4.44	*	*	*	*	1.84	*	*	*	*	*	*	.66	*	*	*	*	*	*	1.00	*	*	*	*	*	*	.95	*	*	*	*	

See reference notes following Station Index.

DAILY PRECIPITATION

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAWAINUI LOWER 193	A	7.50	*	*	*	*	1.59	*	*	*	*	*	*	1.71	*	*	*	*	*	*	2.10	*	*	*	*	*	*	2.10	*	*	*	*	1970
KEAAU 92		5.94	.01	.11	.04	.55	.09	.03	.01	.17	.09	.02	.16	.66	.05	.37	.15	.17	.21	.26	.11	.02	.06	.22	.23	.37	.11	.31	.24	.92	.55	.03	
KEALAKEKUA 26.2		3.37	.12		.02	.01	.00	.01	.02	.05		.01	T	.50	.03	.11	.71		.06	.04	.51	.42			.03	.03		.22	T	.29	T	.09	
KEHENA 181.2	A	10.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.55	
KIOLAKAA A & E 6	A	5.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.50	
KIPA 89.2	A	12.44		.28	.08	1.07	.12	.07	.15	.22	.07	.05	.15	.29	.04	1.00	.21	.45	.24	1.76	.33	.02	.21	.72	.24	.52	2.31	.30	.25	.52	.75	.02	
KOHALA 179.1	A	3.91	.04	.29	.30	.07		*	*	.10	.02	.01		.48	*	*	.72	.34	.18	.62	.14	*	*	.07	.03	.11	.13	.16	*	*	.29	.01	
KOHALA MAULILI 176	A	4.52	.09	.22	.08	.12	.01	*	*	.09	.01	.06		.52	*	*	.68	.11	.20	1.05	.29	*	*	.08	.02	.13	.26	.15	*	*	.33	.02	
KOHALA MISSION 175.1		4.49		.50	.08	.04	T		.06	.07	.03	.02		.09	.65	.15	.31	.36	.71	.13	T	.04	.03	.03	.12	.10	.14	.09	.13	.09	.01	
KOIAWE LOWER 196	A	5.11	*	*	*	*	.73	*	*	*	*	*	*	1.02	*	*	*	c	*	*	1.64	*	*	*	*	*	*	1.72	*	*	*	*	
KONA AIRPORT 68.3		-				-					.02	-	.02	.15	.03		.14			-	.02	T	.06			T				T		
KONA VILLAGE 93.8		.21																				.09						.12				
KUKAIAU 222		3.09	.05		.02	.30														.09	.21			.73	.14	.11	.25	.06	T	.22	.01		
KUKUIHAELE MTC 199		2.65		.02		.07	.08							.40			.04		.03	.51	.33			.18	.14	.18	.40	.06	.04	.06	.14		
KUKUIHAELE MILL 206	A	2.27	.05	.05	.09	.30	.08	*	*	.03				.09	*	*	.01		.01	.45	.20	*	*	.14	.13	.01	.53	.03	*	*	.07		
KULANI CAMP 79		2.09			.08	.20	.20	.01		.01			*	.02	.03	.18	.07	.22		.13	.01		.02	.08	.04	.13	.12	.05	.02	.25	.22		
KULANI MAUKA 76	A	.31																											.31				
KULANI SCHOOL SITE 78	A	1.91	*	*	*	*		.+1	*	*	*	*	*	*	.32	*	*	*	*	*	*	.46	*	*	*	*	*	*	.72	*	*		
LANIHAU 68.2		3.54	.06		.16		.39				.09			.35	.08	.21	.35		.13	.14	.60	.32			.10			.13		.33	.10		
MANUKA 7	A	2.05	1.51				.01								*	*	.21	.13	T			*	*	.05	T			.04		*	.10	T	
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUNA LOA SLOPE OBS		.02																											.02				
MIDDLE HOLUALOA 68.1	A	2.87	.19	*	*	*	.56	*	*	*	*	*	*	*	*	*	.86	*	.05	*	.87	.24	*	*	*	*	*	*	*	*	.10	*	
MIDDLE PEN 147.1	A	.01																															
MOAULA 18	A	.77	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.70	
MOUNTAIN VIEW 91		9.82	.10	.20	.16	.64	.30	.04	.03	.23	.04	.08	.22	.21	.09	.66	.26	.43	.20	1.00	.25	.06	.17	.60	.27	.68	.89	.58	.20	.77	.46		
NAALEHU 14	A	1.14				.38	T						.05		*	*	.56	.01		T			*	.03	T			.09	*	*	.02		
NAPOOPOO 28	A	3.17	1.02	*	*	*	*	*	*	.33	*	*	*	*	*	*	.96	*	*	*	*	*	*	.71	*	*	*	*	*	*	.15	*	
NAULU FOREST 38.6		2.35			.74	.42	T				.04	*	*	*	.07	.16	.01	.01	.03	*	.11	.03	.06	.12	.01	.05	*	.11	.12	.12	.14		
NIULII 179	A	4.11	.08	.40	.40	.06		*	*	.05				.26	*	*	.89	.31	.16	.76	.10	*	*	.05		.12	.06	.15	*	*	.26		
OOKALA 223		3.44	.01	.01	.06	.21	T		.10	.02	.01	T		.12		.02			.02	.67	.14	.03	.02	.40	.35	.15	.52	.12	.05	.41	.05		
OPIHIHALE 74.1		1.90	.01	.09	T	.11	.02	.04	.02	T	.13	.01	.19	.14	.05	.07	.01	.06	.01	.11	.17	.01	.03	.02		.04	.22	.01	.01	.20	.12	T	
PACIFIC LAND EST 91.5	A	6.63	*	*	*	*	2.14	*	*	*	*	*	*	1.11	*	*	*	*	*	*	2.00	*	*	*	*	*	*	1.38	*	*	*	*	
PAAUHAU 217		1.12			.03	.02	.01	.02											.01	.38	.22			.22	.04	.02	.08	.03		.04	.13		
PAAVILO 221		*	.01	T	T	.14	T			T										.76	.22			.41	.08	.04	.10	.05	T	.17	T	*	
PAHALA 21		1.12				.80	.29						.02								.01												
PAHOA 65		7.97	.06	.19	.42	.59	.31	.04	.04	.30	.09	.09	.13	.22	.07	.49	.20	.34	.37	.65	.23	.02	.07	.21	.23	.40	.13	.15	.26	1.00	.60	.05	
PAKAO 37	A	1.91	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.90	
PAPAIKOU 144.1		7.59			.23	.40	.12	.01	.11	.22	.19	.02	.12	.32	.10	.27	.22	.16	.23	.72	.08	.13	.13	.60	.11	.36	.27	.26	.39	.83	.57	.19	
PAPAIKOU MAUKA 140.1		11.49		.07	.15	1.14	.10	.03	.20	.33	.14	.06	.17	.25	.03	.87	.20	.47	.45	1.20	.61	.13	.22	.53	.30	.68	.82	.38	.25	.69	.94	.04	
PEPEEKEO MAKAI 144		7.21	.01	.08	.61	.48	.08		.07	.17	.05	.08	.09	.12		.17	.14	.22	.55	.40	.22	.01		1.00	.07	.32	.38	.30	.24	.86	.40	.09	
PIIHONUA 89	A	16.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.08	
POHAKULOA 107	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUAKO 95.1	A	.65												.59																	.06		
PUU KIHE 120	A	.31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.31	
PUU LAAU 102.1	A	.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.22	
PUU LEHUA 73	A	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20	
PUU MALI 113	A	.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.22	
PUUUKUMZU 167	A	3.24	*	*	*	.36	*	*	*	*	*	*	.15	*	*	*	*	*	*	2.07	*	*	*	*	*	*	.66	*	*	*	*		
PUU OO 82		2.44			.11	.18	.19	T					.04	.07		.13	T	.26		.13	T		.08	.13	.05	.30	.10	.23	T	.31	.18	T	
PUU WAAWAA 94.1	A	.27										*	*	.15	*	*	.11	T															
SADDLE ROAD 1 84	A	9.02	*	*	*	*	2.67	*	*	*	*	*	*	.72	*	*	*	*	*	*	3.40	*	*	*	*	*	*	2.20	*	*	*	*		
SOUTH POINT CORRAL 3	A	.15	*	*	*	*	*	.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
UMIKOA 119		3.03	*	.02		2.20		.01		.02		.01				.02			.02	.05	.01	.02		.26	.20	.05	.02			.01	.10		
UPOLU POINT USCG 159.2		1.84		.22	.01				.03	.05		.01		.27	.04	.29	.01	.01	.12	.46	.07					.13	.01	.09	.05	T	.04		
WAIAKEA SCS 88.2		9.59		*	*	1.34	.19	.16	.02	.05			.15		.02	.51	.20	.43	.81	.72	.45		.17	.73	.35	.47	.86	.50	.11	.59	.71	.01	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.) Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Relative humidity averages-percent Standard of Time 150TH MERIDIAN 02	08	14	20	Number of days with precipitation Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
HILO, HAWAII, WB AIRPORT	14	0.5	6.2	17	E	30+	91	80	69	84	0	10	18	2	0	0	30	28	8.1
HONOLULU, OAHU, WBFC	6	13.6	14.2	26	NE	30+	70	64	52	66	17	5	1	0	0	0	23	65	5.6
KAHULUI, MAUI, WB AIRPORT	5	13.1	14.0	31	E	23	78	69	54	73	11	2	0	0	0	0	13	77	4.5
LIHUE, KAUAI, WB AIRPORT	6	13.0	13.3	23	E	23+	77	74	66	74	6	15	2	0	0	0	23	36	6.7

See reference notes following Station Index.

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
• • •																																	
ISLAND OF HAWAII																																	
KAMAUOA LUMBER .075	MAX	69	72	73	74	73	74	78	76	78	72	70	75	74	74	75	77	71	75	71	74	73	74	72	72	73	72	73	74	76	73		73.4
	MIN	47	46	47	43	54	40	43	53	55	50	49	49	49	45	52	54	54	54	55	43	58	48	54	55	58	52	43	41	58	58		50.5
KILAUEA POINT 1.33	MAX	79	80	80	80	81	81	81	81	80	81	81	81	80	81	82	81	80	81	80	81	80	79	81	81	80	82	80	80	80	81		80.7
	MIN	71	60	70	67	71	65	72	74	69	66	60	67	71	74	70	74	71	64	71	66	70	71	70	71	72	63	72	60	69	72		68.8
[illegible] AP 1 22.1	MAX	82	83	84	82	83	82	84	83	84	83	83	83	82	84	84	83	84	82	84	82	82	83	84	82	83	83	83	83	84	84		83.0
	MIN	72	74	74	67	74	75	74	74	75	73	75	76	76	76	75	73	75	73	73	73	73	72	75	72	75	72	75	76	75	74		73.9
[illegible] POINT 940.1	MAX	82	84	85	82	86	85	86	85	81	84	85	88	86	86	87	85	85	84	81	83	85	84	84	84	80	84	79	83	88	83		84.1
	MIN	67	73	75	73	78	68	76	63	75	70	79	70	74	75	76	71	71	68	74	76	73	68	65	68	75	67	70	71	73	71		71.8
[illegible] 26	MAX	90	89	89	89	86	89	89	91	88	88	89	85	88	89	89	87	89	90	91	87	89	90	87	85	87	89	88	89	89	90		88.4
	MIN	63	62	64	65	63	65	67	67	67	66	65	67	65	67	66	65	65	65	64	70	67	68	64	66	68	67	67	67	67	68		65.9
[illegible] PIERCE .035	MAX	80	80	81	80	80	80	81	80	83	81	80	79	80	81	81	83	84	82	81	83	84	83	84	85	84	83	82	84	83	84		81.9
	MIN	60	61	62	60	61	60	61	61	60	60	60	61	60	60	61	63	65	60	60	61	62	60	60	62	62	60	60	62	61	62		60.9
HAIAHI POWER 1054	MAX	79	82	82	83	83	83	83	81	83	83	83	81	82	81	82	82	78	80	82	81	82	78	79	77	78	80	85	80	78	81		81.1
	MIN	61	61	64	61	64	62	67	65	67	66	67	65	68	68	67	68	65	65	66	65	68	64	66	67	68	66	67	68	68	69		65.8
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ISLAND OF OAHU																																	
[illegible] A PLANTATION 741	MAX	85	89	89	87	84		88	86	86	84	85	83	84		87	86	84	85	85	86		85	84	85	84	85	83		86	85		85.1
	MIN	67	67	65	65	67		69	70	71	68	70	68	70		69	69	70	70	69	69		69	70	71	71	68	70		68	71		68.9
HONOLULU ABEC 703	MAX	87	87	89	86	89	89	88	90	88	88	88	88	88	90	89	88	88	88	88	85	84	88	88	89	89	88	89	85	88	88		88.0
	MIN	74	74	72	71	74	68	76	76	76	74	74	75	75	76	75	76	76	75	75	73	72	74	74	75	75	73	75	70	71	75		74.2
[illegible]OLU SUBTA 704	MAX	79	80	81	82	81	83	81	80	79	79	80	81	82	84	82	80	80	81	82	79	82	81	81	82	82	80	82	83	81	80		81.0
	MIN	72	71	71	71	71	74	75	75	74	72	71	72	72	74	75	73	73	74	73	71	73	75	72	73	72	73	74	74	74	72		72.9
KAHUKU 912	MAX	84	81	82	84	85			84	83	82	83	84			86	84	82	83	83			83	82	82	81	83			84	83		83.1
	MIN	71	72	72	66	73			71	72	72	74	73			73	73	72	69	71			70	71	69	70	70			71	71		71.2
KANEOHE MAUKA 781	MAX	82	79	81	82	83	82	82	81	82	82	81	82	81	82	82	82	81	81	83	83	78	80	82	79	80	80	80	80	82	81		81.2
	MIN	72	69	68	69	73	70	72	72	73	73	74	72	72	72	72	72	73	71	70	72	70	70	72	68	70	70	68	73	71	70		71.1
KUALOA RES 8 4	MAX	87	86	87	87	84	89	88	89	86	83	86	86	84	85	87	88	85	84	87	89	82	89	85	85	86	86	88	88	87	87		86.3
	MIN	66	72	70	67	73	73	74	73	72	73	72	71	74	72	71	74	73	73	73	72	73	71	72	74	75	71	72	75	73	74		72.4
MAKAPUU POINT 724	MAX	74	77	78	80	82	79	78	78	75	79	78	74	78	80	79	79	76	78	75	80	76	75	78	79	77	77	75	78	78	77		77.6
	MIN	66	63	69	66	66	66	63	71	66	61	72	63	66	67	65	71	65	70	64	69	66	66	66	69	65	66	65	72	71	67		66.7
MAPAKUA 870	MAX	80	81	79	85	83	80	85	80	81	78	80	83	83	81	83	80	77	77	81	73	84	78	78	78	77	79	79	81	80	80		80.1
	MIN	65	65	61	61	61	66	63	67	68	68	66	63	66	66	66	66	65	65	65	67	65	67	65	66	67	66	67	65	66	66		65.3
MT KAHUKU 820.2	MAX	88	82	83	86	86	86	86	87	86	82	85	86	84	84	87	86	81	82	85	86	77	85	82	83	83	83	82	82	84	85		84.1
	MIN	61	65	61	61	63	64	67	64	70	68	68	64	65	67	65	65	64	67	67	67	67	67	66	66	67	68	65	67	66	69		65.7
NAIALUA 647	MAX	84	88	83	89	86	86	86	85	87	85	84	87	84	86	89	87	83	83	85	85	80	84	84	85	85	85	84	87	87	88		85.4
	MIN	67	61	60	59	61	61	64	64	70	68	69	64	64	67	68	65	63	67	66	66	68	70	69	67	71	68	69	67	67	69		66.0
WAIKIKI 717.2	MAX	84	83	86		87	86	86	85	85		84		85	82	85			85		87	84	86	86	84	84	84	87	86	85	85		85.0
	MIN	73	76	67		70	73	75	74	74		69		73	72	73			74		76	73	73	76	75	72	70	73	73	72	73		72.9
WAIMANALO EXP FARM	MAX	84	83	82	83	83	82	84	84	84	83	83	85	83	84	85	84	83	83	84	84	80	82	84	83	82	82	84	84	82	84		83.2
	MIN	72	69	72	71	72	72	73	74	74	72	73	74	73	74	73	74	73	73	72	72	71	74	72	72	71	69	72	74	71	72		72.3
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ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	84	80	81	83	81	84	85	83	81	83	83	81	83	85	85	83	81	81	83	83	83	84	82	81	83	82	82	85	83	83		82.7
	MIN	69	70	70	69	68	70	75	69	70	68	69	69	68	74	69	71	70	69	68	74	74	75	72	71	69	70	71	74	70	72		70.6
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ISLAND OF LANAI																																	
LANAI CITY 472	MAX	78	74	75	77	76			79	81	76	85	77			83	80	78	77	77	76		75	76	75	75	76	76		78	77		77.4
	MIN	63	64	61	62	62			63	63	63	57	65			65	67	65	65	66	65		50	64	64	65	65	66		66	65		63.4
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ISLAND OF MAUI																																	
HALEAKA A RS 938	MAX	64	69	66	59	57	64	68	70	74	74	72	64	73	68	73	66	70	69	70	68	67	63	73	70	64	65	64	63	65	70		67.4
	MIN	45	43	40	36	37	45	51	57	57	54	45	43	51	49	45	43	52	47	46	45	42	44	57	45	47	53	43	45	49	53		47.0
HALEAKA A SUMMIT 338.4	MAX	54	58	56	56	59			54	61	64	65	64			61	65	60	59	59			64	64	65	61	60			58	57		60.2
	MIN	38	40	40	39	43			46	48	46	48	50			44	46	48	43	44			50	50	43	45	43			41	42		44.4
HANA AIRPORT 355	MAX	82	82	83	83	82	83	84	84	84	84	83	84	84	85	85	84	81	83	84	84	81	83	83	83	83	82	82	84	84	84		83.2
	MIN	69	67	67	68	67	68	70	72	70	71	70	70	70	72	67	70	68	73	68	68	70	73	68	70	70	68	69	70	69	69		69.4
KAHANAPA I AIRPORT	MAX			84	83	84	86		86	85	85		87	84			85	83	84	85	85			85	84						85		
	MIN			67	69	68	69		70	72	70		69	72			69	68	72	71	70			65	69						76		
KUMULUI 48 SP 349	MAX	84	86	86	86	87	90	89	87	87	87	89	89	87	90	89	86	87	87	86	87	86	87	87	89	87	86	89	88	88	84		87.2
	MIN	70	68	69	69	69	66	73	73	73	69	67	68	67	67	62	71	71	72	71	68	69	70	70	70	71	71	72	72	71	72		69.4
KAILUA 445	MAX	76	74	78	78	78	78	78	78	77	78	79	78	78	79	79	79	75	76	77	77	77	77	77	76	77	77	77	78	78	78		77.5
	MIN	65	65	65	65	65	66	68	69	65	68	68	68	67	69	69	69	66	67	67	67	67	67	65	65	67	67	67	67	67	68		66.8
KEAHAKUPU BEACH 2614.2	MAX	88	88	88	84	86	89	89	91	89	88	85	85	87	92	89	87	92	92	86	86	87	86	90	93	90	89	83	89	91	90		88.3
	MIN	62	63	60	63	63	64	63	65	66	69	67	65	65	67	63	66	65	64	63	65	66	65	67	65	65	64	66	66	69	65		64.9
KULA SANATORIUM 267	MAX	72	72	71	73	72	72	76	74	74	73	73	70	70	73	74	74	73	72	72	73	74	72	73	71	71	73	68	74	70	74		72.4
	MIN	54	54	53	54	55	55	56	55	52	53	52	53	54	60	59	55	53	51	52	56	58	59	55	54	55	54	55	58	59	54		54.9

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX	87	87	87	85	85	86	88	86	86	85	85	85	85	86	89	87	87	87	86	86	84	85	87	86	85	85	84	85	85	87		85.9
	MIN	66	65	65	63	67	68	67	68	70	69	69	68	68	68	68	69	67	67	67	69	68	69	68	70	69	68	69	69	70	71		68.1
WAILUKU 386	MAX	83	80	80	80	82			84	82	83	82	82			84	83	81	83	81			81	82	80	82	79			84	82		81.8
	MIN	68	70	69	69	70			72	73	72	69	72			70	72	70	72	71			71	70	71	70	71			72	72		70.7
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	81	81	80	79	81	80	83	82	80	79	81	81	82	81	79	81	82	75	78	83	83	80	77	81	83	78	82	83	81	80		80.6
	MIN	65	66	64	66	66	65	66	68	68	67	66	68	67	68	67	68	67	66	64	64	67	67	66	68	68	65	67	67	68	68		66.6
HAWAII VOLCNS NP HQ 54	MAX	68	69	69	72	67	69	70	71	68	70	69	70	67	71	70	70	68	64	68	71	70	71	67	65	69	68	83	66	69	70		69.3
	MIN	51	55	50	57	53	54	54	54	54	58	57	55	56	56	55	53	54	56	55	52	55	56	54	55	57	53	53	55	56	55		54.6
HILO W8 AIRPORT 87	MAX	81	82	80	78	82	84	82	83	80	79	83	84	81	84	80	82	80	83	82	84	84	82	79	83	80	82	82	82	81	82		81.7
	MIN	64	66	64	69	69	65	67	68	68	68	66	67	66	67	64	64	65	66	64	64	65	67	65	65	66	62	65	67	66	64		65.7
KAINALIU 73.2	MAX	79	75	78	77	80	79	78	77	80	77	77	78	77	77	76	78	78	77	78	77	78	79	81	80	79	78	76	79	78	78		78.0
	MIN	62	63	62	61	62	64	64	64	65	65	64	64	65	62	65	63	62	64	65	64	63	66	65	63	66	65	63	64	64	65		63.8
KAMUELA 192.2	MAX	75	75	75	73	75	75	75	75	75	75	75	75	76	76	76	76	72	67	70	72	71	73	70	71	73	70	73	75	73	72		73.5
	MIN	60	60	62	65	62	62	62	62	62	60	63	63	63	63	63	58	56	57	56	57	58	58	58	58	57	58	60	57	57	57		59.8
KAMUELA AIRPORT 191	MAX	72	71	72	73	76	75	74	70	78	69	70	75	76	75	74	75	74	69	75	75	74	75	72	74	76	75	76	76	76	74		73.9
	MIN	42	48	52	54	56	53		48	42	57	52	48	54	59	57	60	58	58	58	52	55	48	57		59	48	50	55	62	58		53.6
KEAAU 92	MAX	83	82	82	82	81	83	83	83	81	80	80	83	84	82	83	82	83	80	81	83	84	84	79	79	84	79	84	81	83	81		82.0
	MIN	65	65	65	65	66	66	65	66	65	67	65	65	68	69	66	66	66	66	65	65	67	68	67	66	66	64	64	66	68	65		65.9
KEALAKEKUA 26.2	MAX	79	77	79	76	77	80	79	76	77	76	76	78	77	77	74	78	77	76	78	77	77	78	80	77	79	77	76	78	78	78		77.4
	MIN	64	63	63	62	62	63	66	65	66	66	64	65	65	64	66	64	65	65	64	65	64	67	67	65	67	66	63	64	65	66		64.7
KOHALA MISSION 175.1	MAX	79	78	79	79	80	80	80	80	79	78	79	81	80	72	78	79	79	72	77	80	81	80	79	79	81	78	80	80	81	78		78.9
	MIN	67	66	66	65	65	68	67	68	69	68	67	68	69	68	69	67	67	66	66	67	68	68	68	67	68	67	67	67	68	70		67.4
KONA AIRPORT 68.3	MAX	85	82	80		84	85	86	84	82		82	83	80	84	83	83	84		84		85	86	86	84	82			84	85	85		83.7
	MIN	64	66	68		68	62	62	67	69		64	64	64	64	66	67	67		67		65	65	66	67	68			67	67	68		65.9
KULANI CAMP 79	MAX	60	65	64	63	62	62	65	68	67	68	61	66	64	69	65	66	67	61	65	59	65	66	67	61	61	61	64	62	64	65		64.1
	MIN	36	47	45	40	47	45	43	43	45	47	46	46	47	48	45	47	48	52	47	43	43	52	51	51	53	46	51	51	50	49		46.8
MAUNA LOA SLOPE 08S	MAX	57	58	54	57	57	57	55	58	59	56	59	62	65	61	58	62	61	62	58	57	57	59	63	57	55	55	50	60	60	58		58.2
	MIN	39	37	35	38	37	34	35	40	40	43	42	42	44	43	41	41	42	42	41	41	42	40	44	41	38	41	38	37	38	40		39.9
MOUNTAIN VIEW 91	MAX	77	76	75	77	73	78	78	78	75	75	73	79	78	78	78	77	76	70	73	79	79	79	73	71	77	70	78	78	78	75		76.0
	MIN	60	60	59	60	60	61	61	61	63	62	62	62	61	61	61	62	62	63	61	59	59	59	62	62	62	59	59	59	59	61		60.7
NAALEHU 14	MAX	81	80	81	81	79	79	82	82	81	78	76	81	81	79	79	81	79	73	77	77	82	82	81	78	82	75	75	82	82	81		79.6
	MIN	63	65	66	67	66	66	66	66	66	68	66	69	69	68	68	67	67	68	67	67	65	65	66	69	70	63	63	68	68	69		66.7
OOKALA 223	MAX	80	79	78	76	80	80	80	80	80	79	76	80	80	80	79	79	80	79	77	80	80	81	80	78	81	77	80	81	80	80		79.3
	MIN	67	66	66	66	66	69	68	67	68	69	68	67	69	68	69	69	66	66	66	67	67	67	67	67	69	67	66	66	67	69		67.3
OPIHIHALE 2 24.1	MAX	80	80	80	76	75	81	76	79	76	75	75	74	73	81	79	81	75	80	80	77	77	81	81	79	75	77	77	79	76	81		77.9
	MIN	61	60	60	61	63	66	65	66	64	61	62	64	64	66	61	61	61	64	64	61	62	64	63	65	65	62	62	63	63	63		62.9
PAHALA 21	MAX	80	81	79	79	76	78	79	81	80	78	76	79	76	80	77	81	80	77	79	78		81	78	78	80	75	79	79	79	81		78.8
	MIN	61	61	62	62	61	62	62	62	62	64	65	64	68	67	62	62	63	65	63	60		64	64	64	67	61	63	67	67	64		63.4
PUAKO 95.1	MAX	87	87	87	87	86	87	88	87	89	88	85	85	84	85	84	88	89	87	86	86	87	87	90	86	88	88	87	87	87	87		86.9
	MIN	72	70	68	70	69	74	72	73	73	73	69	70	69	71	70	73	73	72	72	70	72	72	73	71	73	72	73	72	71	72		71.5
UPOLU POINT USCG 159.2	MAX	84	85	82	83	85	82	85	84	83	81	83	84	85	83	83	88	83	80	80	83	84	84	83	83	84	81	84	84	84	84		83.4
	MIN	66	68	69	69	70	68	68	66	69	70	69	69	71	71	72	71	69	68	69	68	68	70	71	69	71	68	69	72	70	72		69.3

EVAPORATION AND WIND

Station		Day Of Month																													Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE W8 AP 1020.1	EVAP	.35	.31	.35	.35	.30	.49	.36	.38	.37	.29	.23	.39	.39	.34	.37	.38	.40	.42	.24	.43	.26	.31	.35	.41	.24	.23	.32	.44	.13	.18		10.01
	WIND	176	136	153	105	127	173	203	203	229	189	145	166	181	155	182	188	250	224	183	185	238	163	193	249	255	175	179	240	231	204		5680
	MAX	87	85	88	91	93	90	89	88	87	86	90	91	89	89	92	88	85	86	85	88	82	83	84	83	82	82	89	87	87	85		87.0
	MIN	65	65	65	64	64	68	67	67	67	67	68	68	69	69	68	68	66	66	66	67	68	64	65	67	67	66	67	67	68	68		66.7
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.45	.19	.35	.34	.30	.29	.33	.37	.35	.24	.27	.26	.30	.24	.30	.30	.39	.32	.40	.42	.20	.31	.34	.33	.29	.33	.30	.33	.40	.39		9.63
	WIND	38	20	27	25	20	22	30	37	42	25	16	17	22	18	32	26	41	35	29	31	23	22	31	37	32	38	18	29	32	38		853
	MAX	89	90	90	93	89	93	92	92	89	85	88	92	91	91	90	92	92	89	91	93	86	92	91	89	88	93	86	91	92	95		90.5
	MIN	66	67	65	65	66	68	68	68	67	67	67	68	69	69	67	68	73	67	68	69	69	69	69	66	68	68	69	68	70	69		68.0

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
DELAYED DATA

Station	Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • •																																
[illegible] 1969																																
KEAAKAKAP BEACH 260.2	.05																							.03	.02							
• • •																																
FEBRUARY 1970																																
[illegible] MAY 1970	4.11			.24	.39			.04			.20			1.26	.08		.04	.51	.38						.28	.24	.47	.04	.04			

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
• • •																																	
DECEMBER 1969																																	
KEAAKAKAP BEACH 260.2	MAX	87	88	89	87	85	93	90	87	86	87	86	87	86	86	84	88	83	86	85	86	85	85	84	83	83	87	87	85	86	85		84.2
	MIN	63	62	63	63	65	70	64	61	63	62	67	66	66	66	65	65	63	61	63	64	67	63	69	64	65	60	59	60	68	69		64.2

CORRECTIONS

DATE	TABLE	STATION	CORRECTIONS
ISLAND OF OAHU			
AUGUST 1965 THROUGH APRIL 1970	CLIMATOLOGICAL DATA	NUUANU RES 4 783	DELETE DATA FROM AUGUST 1965 THROUGH APRIL 1970; SEE CORRECTED DATA
AUGUST 1965 THROUGH APRIL 1970	DAILY PRECIPITATION	NUUANU RES 4 783	DELETE DATA FROM AUGUST 1965 THROUGH APRIL 1970; SEE CORRECTED DATA
ISLAND OF MOLOKAI			
JANUARY THROUGH DECEMBER 1969	DAILY PRECIPITATION	WAKOLU 540	ALL DAILY AMOUNTS FOR 1969 ARE ACCUMULATIONS
ISLAND OF MAUI			
[illegible]EMBER 1969	TEMPERATURE & PRECIPITATION EXTREMES	HALEAKALA [illegible] 424	GREATEST 1-DAY PRECIPITATION 8.95, DATE 29TH

CORRECTED DATA FOR NUUANU RESERVOIR 4 783, OAHU

MONTH	1965	1966	1967	1968	1969	1970
JANUARY		7.07	3.86	13.43	14.15	10.94
FEBRUARY		9.51	12.19	3.85	20.66	1.92
MARCH		2.79	19.18	28.76	21.13	2.81
APRIL		4.05	7.54	12.52	6.36	7.59
MAY		3.65	9.66	4.49	7.26	
JUNE		3.35	4.32	4.65	10.86	
JULY		7.62	11.50	4.40	10.24	
AUGUST	7.21	5.64	16.95	3.04	7.19	
SEPTEMBER	8.07	6.27	6.60	8.88	8.35	
OCTOBER	12.51	20.13	8.70	8.47	4.19	
NOVEMBER	42.00	20.99	14.53	14.16	9.90	
DECEMBER	17.55	6.36	22.72	17.36	13.08	
TOTAL	-	97.43	137.75	124.01	133.37	

CORRECTED DATA - TAKEN FROM AN 8-INCH GAGE APPROXIMATELY 150 FEET SOUTHWEST OF RECORDER.

See reference notes following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP	EVAP.	SPECIAL		OBSERVER
ISLAND OF KAUAI														
ALEXANDER RESV. 983		0140	02	KOLUA	2	21 57	159 32	1610				C		MCBRYDE SUGAR CO.
ANAHOLA 1114	A	0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C		LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A				MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLUA	2	21 55	159 30	440		7A				MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1		0465	02	KAWAIHAU	2	22 06	159 22	350				C		LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A				MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A				LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A				GROVE FARM CO LTD
HANALEI TUNNEL 1053	A	1170	01	KAWAIHAU	1	22 05	159 28	1218					S	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A				KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A				LIHUE PLTN CO LTD
INTAKE WAIMIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690					S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A	2974	01	HAMALEI	1	22 11	159 26	380		8A				KILAUEA SUG PLTN CO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	5A		C		KAMALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHOU	1	22 08	159 23	830		7A				LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C		LIHUE PLTN CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A				LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C		KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	1	22 13	159 25	317		6A		C		KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4566	01	HANALEI	1	22 11	159 24	415		7A				KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4568	01	HANALEI	1	22 14	159 24	180	8A	8A				U S COAST GUARD
KITANO 1037.1		4650	03	WAIMEA	3	22 02	159 41	2150				C		KEKAHA SUGAR CO
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A				KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A				GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A				GROVE FARM CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A				KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A				MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		C		HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A				LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C	J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1		5785	02	KOLOA	2	21 52	159 27	52	8A	8A				U S COAST GUARD
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A				OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A				KEKAHA SUGAR CO LTD
M+M 1001		6097	02	KOLOA	2	21 55	159 28	300				C		GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		MID			S	U S GEO SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A				LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148		MID			S	U. S. GEO. SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A				KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A				LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A	6893	02	KIHUE	2	22 04	159 26	650					S	LIHUE PLTN CO LTD
PH WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		C		MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		C		PRINCEVILLE RANCH
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		7A				KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A				GROVE FARM CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A				GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	02	LIHUE	2	22 04	159 27	740				C		LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C		MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100						MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	565	6A	6A				LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		8A				LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A				KEKAHA SUGAR CO LTD
WAILUA KAI .065	A	9467	02	LIHUE	2	22 02	159 21	50		7A				LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20		8A				KEKAHA SUGAR CO.
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A				MC BRYDE SUG CO LTD
ISLAND OF OAHU														
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C		DON MITCHELL
AIEA FIELD 625 761	A	0111	03	EWA	3	21 25	157 57	455		7A				WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A				BOARD OF WTR SUPPLY
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A		C		DEL MONTE CORPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P				BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A				H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C		J.L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9A	7A				OAHU SUGAR COMPANY
HALAWA SHAFT 77192		0964	02	HONOLULU	2	21 23	157 54	170				C		BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274				C		WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220		VAR		C		H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A			U S COAST & GEODETIC
*HONOLULU WBFC 703	R	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C		ESSA-WEATHER BUREAU
H S P A EXP STA 707		2146	02	HONOLULU	2	21 18	157 50	50		8A				H S P A EXP STATION
KAALAKEI 724.6		2269	02	HONOLULU	2	21 18	157 43	10				C		MRS. MILLIE ZAPATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800						WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C		KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C		KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910		MID				BOARD OF WTR SUPPLY
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A				STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A				KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	01	KOOLAULOA	1	21 36	157 54	10				C		GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A				WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WAIALUA	5	21 34	157 59	1180						WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A				C & F OFFICER HEDG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C		USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 06	1500		VAR				U S NAVY
LULUKU		5655	01	KOOLAUPOKO	1	21 24	157 49	240				C		MILNOR LOW
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A				LUNALILO HOME
MAKAHA KAI 796	A	5766	04	WAIANAE	4	21 28	158 13	25		7A				CAPITAL INVEST CO
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A				CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	538	8A	8A				U S COAST GUARD
MANANA 754.2		6089	03	OAHU	3	21 25	157 58	240				C		CLARENCE LEE
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A				MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650		MID				BOARD OF WTR SUPPLY
MAUNAWILI 767.1		6222	01	KOOLAUPOKO	1	21 21	157 46	410				C		EXP. STA. H.S.P.A.
MOANALUA 770		6295	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4025				C		FEDERAL AVIATION AUM
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MID				BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		VAR				BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C		WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995		MID				BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640		MID				BOARD OF WTR SUPPLY
PORTLOCK ROAD 724.4		8126	02	HONOLULU	2	21 17	157 43	6		7A				MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C		PINEAPPLE RESEARCH INST
PUNALUU 884	A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A				KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	1	21 39	158 02	900				C		JACK N. WHEELER
ST STEPHENS SEM 788		8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A				REV R CULLINAN
TANTALUS PEAK 780		8730	02	HONOLULU	2	21 20	157 49	2000				C		BOARD OF WATER SUPPLY
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A				R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A				DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C		WAIALUA SUGAR CO. INC.
WAIAHOLE 337	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C		WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A				SPENCER TINKER
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C		WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A	9231	04	WAIANAE	4	21 27	158 11	10		7A				ALFRED J. PRATT
WAIANAE MAUKA 803	A	9238	04	WAIANAE	4	21 29	158 09	1575						CAPITAL INVEST CO
WAIAWA 835	A	9261	03	EWA	3	21 28	157 56	800						WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760						WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180				C		WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A				WAIMANALO EXP FARM
WAIMEA 892	A	9593	05	WAIALUA	5	21 38	158 04	330		7A		C		WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	9738	03	EWA	3	21 23	158 01	59		8A				OAHU SUGAR CO
WILHELMINA RISE 721		9980	02	HONOLULU	2	21 18	157 47	1100		MID				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI														
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6		3046	01	MOLOKAI	1	21 04	156 52	60				C		W... CARSTEN
KAUNAKAKAI 536	A	3541	01	MOLOKAI	1	21 06	157 01	12		6A				MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1	21 06	157 01	70				C		MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560						MOLOKAI RANCH, LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C		DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A				H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C		DOLE COMPANY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUUOHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C		PUUOHOKU RANCH
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550				C		MOLOKAI RANCH
ISLAND OF LANAI														
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650				C		DOLE COMPANY
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C		DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A				DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 55	3370				C		ST. DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 52	156 55	1430						DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150				C		DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040						DOLE COMPANY
ISLAND OF MAUI														
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060		VAR				ULUPALAKUA RANCH
FIELD 46 474		0541	04	LAHAINA	4	20 59	156 38	1050				C		MAUI PINEAPPLE CO.
HAELAAU 477		0790	04	LAHAINA	4	20 57	156 36	2980					S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A				HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1005	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C		LKHEED SP & MSLE DIV
HALEHAKU 492.2		1016	02	MAKAWAO	1	20 55	156 17	690				C		PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A				MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM & SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	120		8A		C		HARRY HASEGAWA
HANA AIRPORT 355		1125	01	HAMA	1	20 48	156 01	61	11A	11A				HAWAIIAN AIRLINES
HANAHULI 281		1148	01	HANA	1	20 41	156 01	325		7A				KOALI RANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930						HALEAKALA NATL PARK RGS
HONOKOHAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870						MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A				MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494		1914	04	LAHAINA	4	21 01	156 38	125					S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280						HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	03	WAILUKU	3	20 53	156 33	1100				C		STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A				AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	4	20 59	156 33	650				C		EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 39	2000						PIONEER MILL CO LTD
KAHULUI WB AP 398	R	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C	J	U S WEATHER BUREAU
KAILIILI 436	A	2630	01	MAKAWAO	1	20 51	156 16	2520						E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A				E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 33	1585						PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	2	20 39	156 08	1020				C		KAUPO RANCH
KEAHUA 410		3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM & SUG CO
KEANAE 345	A	4091	01	HANA	1	20 50	156 10	980						E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A			S	A. L. CORELL
KIHEI 311		4469	03	WAILUKU	3	20 47	156 27	90		7A		C		HAWAIIAN COM & SUG CO
KIPAHULU 258		4534	01	HANA	1	20 39	156 04	260		7A				HANA RANCH
KUKUI 380		4887	04	LAHAINA	4	20 54	156 35	5788					S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C		KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C		PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR				PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A				PIONEER MILL CO LTD
LOPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240						E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A				PIONEER MILL CO LTD
MOKUPEA 475		6521	04	LAHAINA	4	20 59	156 37	1290					S	MAUI LAND-PINEAPPLE CO
NAKALELE FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340		VAR				MAUI LAND-PINEAPPLE CO
OLINDA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR				MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P				PIONEER MILL CO.
OLOWALU GULCH 377	A	7066	04	LAHAINA	4	20 51	156 36	800						PIONEER MILL CO LTD
PAAKEA 350		7194	01	HAMA	1	20 49	156 07	1260		6A		C		E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	1	20 55	156 23	170		6A				HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570						KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		5A				WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR				STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A	8336	01	HANA	1	20 50	156 13	2980						E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500						PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A				HAWAIIAN COM & SUG CO
PUU PAKI 352	A	8553	01	HAMA	1	20 46	156 03	2160					S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A				HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR				KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230						HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	4	20 48	156 35	75		7A				PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	2	20 39	156 24	1900		5A		C		ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	580		8A				PIONEER MILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A				WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	1	20 52	156 12	1200						E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C		MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A				WAILUKU SUGAR CO
WAILUA IKI 348	A	9460	01	HANA	1	20 48	156 09	2630					S	EAST MAUI IRRIGATION CO
WAILUKU 386		9484	03	WAILUKU	3	20 54	156 30	180	7A	7A				WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A	9765	02	HANA	2	20 38	156 12	220						HALEAKALA RANCH CO
ISLAND OF HAWAII														
AHUA UMI 75	A	0040	05	N KONA	5	19 38	155 47	5220						GREENWELL RANCH
AWINI 182.1	A	0190	01	N KOHALA	1	20 10	155 43	1870		VAR				KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A	0450	01	S KOHALA	1	20 07	155 43	4240						KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C		HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A				PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648						HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770						KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220						STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C		HAWAII NAT PARK
HAWI 160	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C		KOHALA SUGAR CO
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	2	19 41	155 10	1520		VAR		C		HILO COUNTRY CLUB
HILO WB AIRPORT 87	R	1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C	J	U S WEATHER BUREAU
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220						STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A				VARIOUS RANCH HANDS
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A				CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A				PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A	1864	01	N KOHALA	1	20 09	155 44	800		VAR				KOHALA DITCH CO LTD
HONOMU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A		C		PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250						STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190						STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A				HUEHUE RANCH
KAALA IKI 12	A	2249	03	KAU	3	19 08	155 34	1340		7A				HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1340		8A				CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4		2512	03	KAU	3	19 08	155 46	3700				C		RUSSELL P. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A				KONA EXPERIMENT STA
KALAPANA NO 1 67.8		2894	02	S HILO	2	19 20	155 02	10		VAR				HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375						HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A				PARKER RANCH
KAMUELA AIRPORT 191		3078	05	S KOHALA	5	20 00	155 40	2665	9A	8A				HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A				HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3369	02	PUNA	2	19 30	154 52	290		VAR				BOARD OF WATER SUPPLY
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080						HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	285	8A	8A				PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	03	KAU	3	19 14	155 29	1700				C		HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C		MISS AMY GREENWELL
KEHENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840						KOHALA DITCH CO LTD
KIOLAKAA A C F 6	A	4625	03	KAU	3	19 04	155 38	1925						STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490						MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		8A				KOHALA SUGAR CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A				KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A				K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720						HONOKAA SUGAR CO
KONA AIRPORT 68.3		4764	04	N KONA	4	19 39	156 01	17	8A	8A		C		HAWAIIAN AIRLINES
KONA VILLAGE 93.8		4765	04	N KONA	4	19 50	155 59	20		8A				KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1	20 02	155 21	840		6A				HAMAKUA MILL CO
KUKUIHAELE MIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A				HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	1	20 08	155 34	300		6A				HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A				ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300				C		MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 22	5735						ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01	S KOHALA	1	20 01	155 41	2615				C		STATE DEPT OF LAN RES
LANIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A				KONA EXPERIMENT STATION
MANUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A				STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103		8A				MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID				MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4	19 37	155 58	475		8A				KONA EXPERIMENT STA
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1	20 06	155 50	1380		VAR				KAHUA RANCH
MOAULA 18	A	6407	03	KAU	3	19 11	155 30	600						HAWAIIAN RANCH CO
MOUNTAIN VIEW 91		6552	02	PUNA	2	19 33	155 07	1530	6A	6A				PUNA SUGAR CO
NAALEHU 14	A	6588	03	KAU	3	19 04	155 35	673	8A	8A				HUTCHINSON SUGAR CO

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
NAPOOPOO 28	A 6497	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA.
NAULU S REST 38.6	8731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NAULU 79	A 6906	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
NEALEHI 29	7131	02	N HILO	2	20 01	155 17	439	7A	7A			LAUPAHOEHOE SUGAR CO
NEHALA 23	7131	02	N HILO	2	20 01	155 17	439	7A	7A			HISS C LEONARD
OPIHIKAA 2 24.1	7169	04	S KONA	4	19 16	155 53	1270	7A	7A			BOARD OF WATER SUPPLY
OPUKEA AND EST 91.5	A 7165	02	PUNA	2	19 34	155 00	465		VAR			PAAUHAU SUGAR CO
PAAUHAU 217	7704	01	HAMAKUA	1	20 05	155 26	415		7A			HAMAKUA MILL CO
PAAULIO 221	7412	01	HAMAKUA	1	20 03	155 22	800		7A			HAWAIIAN AGR CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			PUNA SUGAR COMPANY
PAHOA 85	7457	02	PUNA	2	19 30	154 57	670		6A			HAWAIIAN RANCH CO., INC.
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000					
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			HAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			HAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 09	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 82	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. KAPP
PUU KIHE 120	A 8343	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUULEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PU WAILI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6980					KUKAIAU RANCH CO

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
PUUOKUMAU 167	A 8548	06	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A			DON WINTERS
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	300				C	HAWAIIAN RANCH COMPANY
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 178.A	9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAMUA RANCH

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- – No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates
- ++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data
- • Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record
- R Amounts from recording gage.
- T Trace, an amount too small to measure
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable
- Wl Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

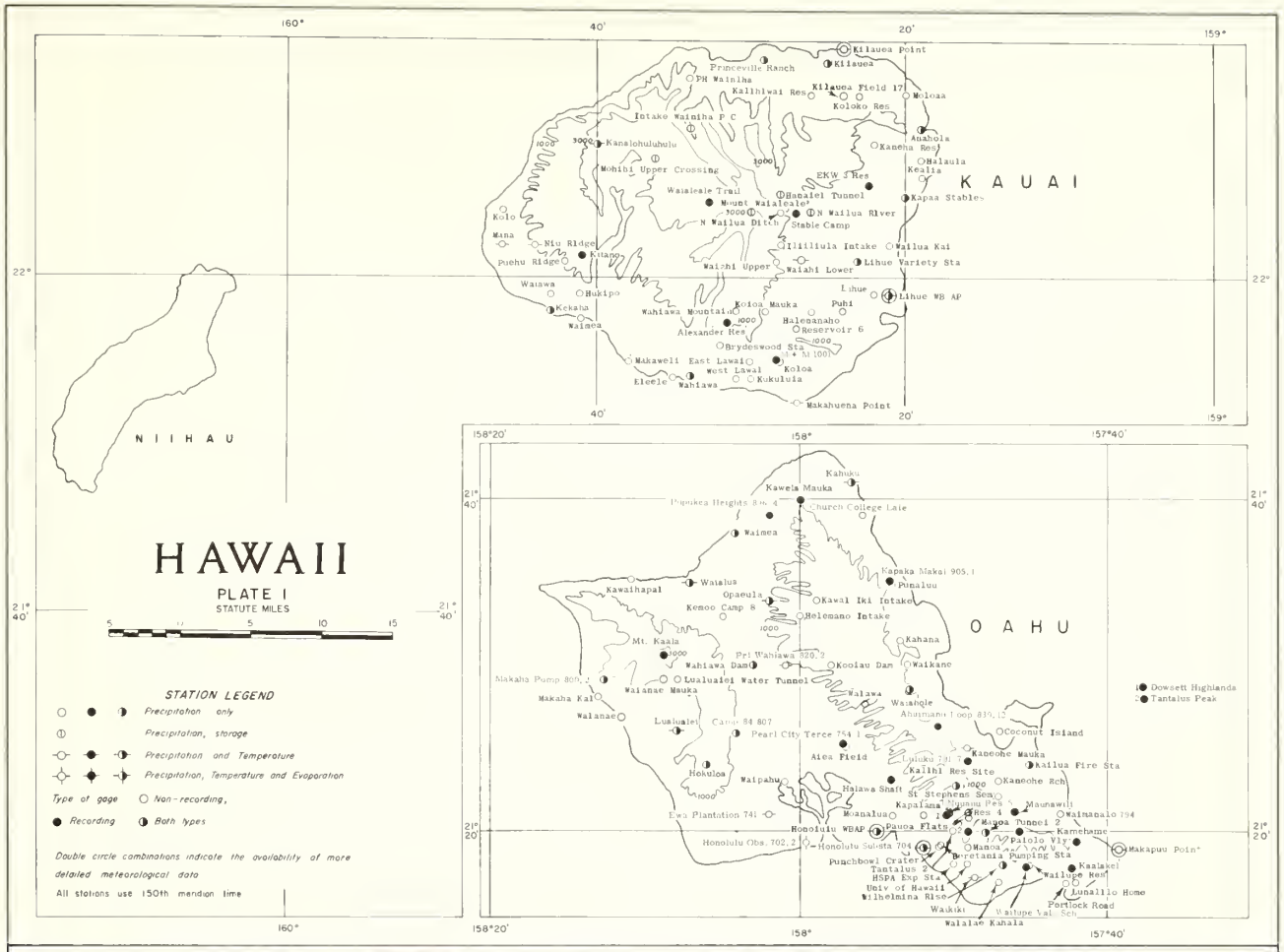
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

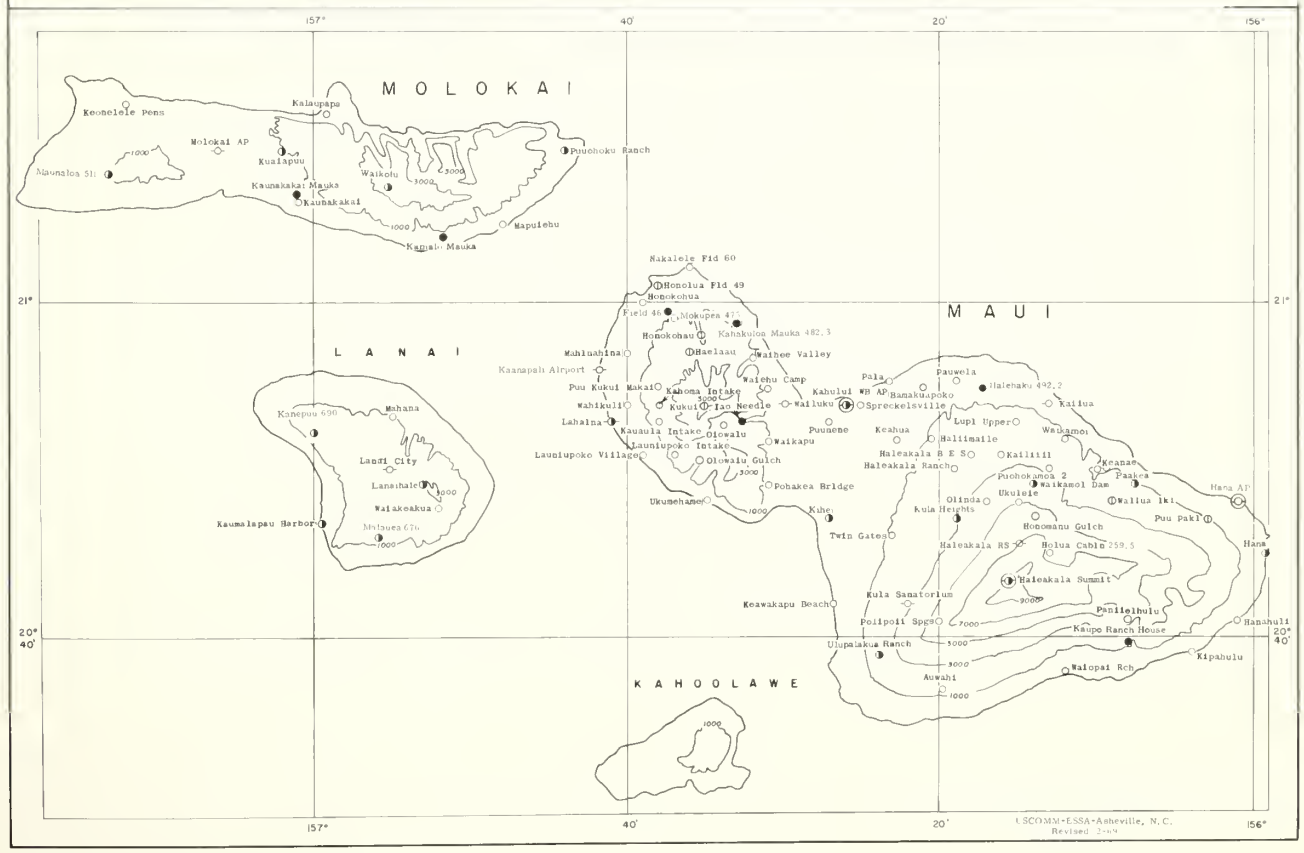
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

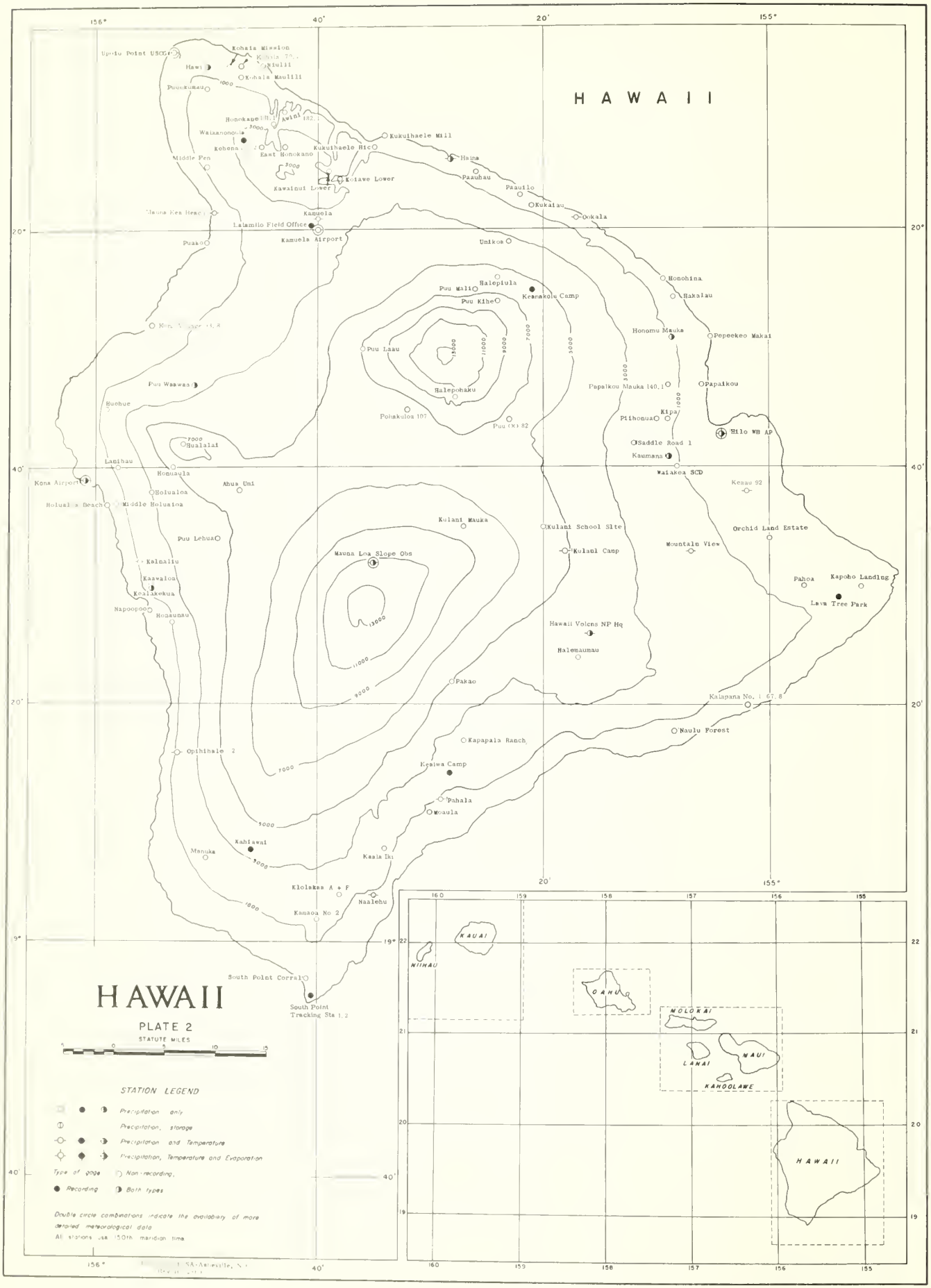
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-ESSA-ASHEVILLE-10/01/70-890


HAWAII
PLATE I
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
160°
40'
20'
159°
22°
158°20'
158°
157°40'
21°
40'
21°
20'
Kilauea Point
Kilauea
Princeville Ranch
PH Wainiha
Kalihiwai Res
Kilauea Field 17
Moloaa
Koloko Res
Intake Wainiha P C
Kanalohuluhulu
Anahola
Kaneha Res
Halaula
Kealia
Mohihi Upper Crossing
EKW 3 Res
Waialeale Trail
Hanalei Tunnel
Kapaa Stables
Mount Waialeale
N Wailua River
N Wailua Ditch
Stable Camp
Koko
Mana
Niu Ridge
Kitano
Puehu Ridge
Lihue Variety Sta
Waiahi Upper
Waiahi Lower
Waiawa
Hukipo
Lihue
Lihue WB AP
Kekaha
Waimea
Wahiawa Mountain
Koloa Mauka
Puhi
Haleanahao Reservoir 6
Alexander Res
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Church College Lale
Waimea
Kapaka Makai 905.1
Punaluu
Kawaihapal
Waialua
Opaeula
Kawai Iki Intake
Kemoo Camp 8
Helemano Intake
Kahana
Mt. Kaala
Pri Wahiawa 920.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 805.2
Lualualei Water Tunnel
Waianae Mauka
Makaha Kai
Walanae
Waialua
Waianae
Ahuimanu Loop 839.12
Lualualei
Camp 84 807
Pearl City Terce 754.1
Coconut Island
Aiea Field
Kaneohe Mauka
Kailhi Res Site
Kailua Fire Sta
Honuloa
Waipahu
Kaneohe Rch
Halawa Shaft
St Stephens Semy
Kapalama Pumping Sta
Maunawili
Ewa Plantation 741
Moanalua
Res 4
Waimanalo 794
Honolulu WBAP
Pauoa Flats
Pauoa Tunnel 2
Kamehame
Honolulu Obs. 702.2
Honolulu Substa 704
Manoa
Paiolo Vly
Makapuu Point
Punchbowl Crater
Beretania Pumping Sta
Tantalus 2
HSPA Exp Sta
Kaalakei
Wailupe Res
Univ of Hawaii
Wilhelmina Rise
Lunalilo Home
Waikiki
Portlock Road
Waialae Kahala
Wailupe Val Sch
1 Dowsett Highlands
2 Tantalus Peak


MOLOKAI
LANAI
KAHOOLAWE
MAUI
157°
40'
20'
156°
21°
20°
Keonelele Pens
Kalaupapa
Molokai AP
Kualapuu
Maunaloa 511
Waikolu
Kaunakakai Mauka
Kaunakakai
Puuhoku Ranch
Mapulehu
Kamalo Mauka
Nakalele Fld 60
Honolua Fld 49
Honokohua
Field 46
Mokupea 47
Kahakuloa Mauka 482.3
Honokohau
Haelaau
Waihee Valley
Mahinahina
Kaanapali Airport
Puu Kukui
Makai
Kahoma Intake
Waiehu Camp
Kahului WB AP
Wahikuli
Kukui
Iao Needle
Wailuku
Sprecklesville
Lahaina
Kauaula Intake
Olowalu
Puunene
Keahua
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Waikapu
Pohakea Bridge
Ukumehame
Kihei
Twin Gates
Kula Sanatorium
Keawakapu Beach
Kanepuu 696
Mahana
Lanai City
Lanaihale
Waiakeakua
Kaumalapau Harbor
Mulpuea 676
Pala
Pauwela
Halehaku 492.2
Banakupoko
Kailua
Lupi Upper
Waikamoi
Hallimaile
Haleakala B E S
Kailiili
Haleakala Ranch
Keanae
Puohokamoa 2
Paakea
Waikamoi Dam
Hana AP
Olinda
Ukulele
Wallua Iki
Kula Heights
Puu Pakl
Honomanu Gulch
Haleakala RS
Holua Cable 259.5
Hana
Haleakala Summit
Polipoli Spgs
Panileihulu
Kaupo Ranch House
Hanahuli
Ulupalakua Ranch
Kipahulu
Auwahi
Waiopai Rch
USCOMM-ESSA-Asheville, N.C.
Revised 2-64


HAWAII
PLATE 2
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
Upolu Point USCG
Kohala Mission
Hawi
Niulii
Kohala Maulili
Puukumau
Honokane Nui
Awini 182.1
Waikanonoula
Kohena
East Honokano
Kukuihaele Hlc
Kukuihaele Mill
Middle Pen
Haina
Paauhau
Kolawe Lower
Kawainui Lower
Paauilo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Halepiula
Puu Mali
Kearakolu Camp
Puu Kihe
Honohina
Hakalau
Honomu Mauka
Pepeekeo Makai
Puu Laau
Halepohaku
Papaikou Mauka 140.1
Papaikou
Pohakuloa 107
Puu (X) 82
Kipu
Pihonua
Hilo WB AP
Saddle Road 1
Kaumana
Waiakea SCD
Puu Waawaa
Huehue
Lanihau
Kona Airport
Honwaula
Holualoa
Holualoa Beach
Middle Holualoa
Abua Umi
Kulani Mauka
Kulani School Site
Kulani Camp
Mountain View
Orchid Land Estate
Keaau 92
Puu Lehua
Kalnaliu
Kaawaloa
Kealakekua
Napoopoo
Honaunau
Mauna Loa Slope Obs
Pahoa
Kapoho Landing
Lava Tree Park
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 CT, 8
Naulu Forest
Opihihale 2
Kapapala Ranch
Kealwa Camp
Pahala
Moaula
Kahiawni
Manuka
Kaala Ik
Klolakaa A + F
Naalehu
Kamaoa No. 2
South Point Corral
South Point Trucking Sta 1, 2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JULY 1970

Volume 66 No. 7

NOV 12 1970

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature													Precipitation								
											No. of Days:								Snow, Sleet			No. of Days		
											Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A														2.97	.58			.0	0				
KANALOHULUHULU 1075															.58				.0	0				0
KAPAA STABLES 1104	A														2.85				.0	0				0
KILAUEA FIELD 17 1135	A														6.52	- .19			.0	0				
KILAUEA POINT 1133		81.5	71.8	76.7		85	22	65	11		0	0	0	0	4.83		1.70	11	.0	0		10	3	2
KOLOA 936	A														5.76	.70			.0	0				
LIHUE W8 AP 1020.1	R	84.5	74.5	79.5	1.9	87	28	72	13+		0	0	0	0	1.76	- .18	.32	11	.0	0		6	0	0
MANA 1026		88.8	66.4	77.6	- .3	90	27+	63	16		8	0	0	0	.54	- .02	.36	26	.0	0		2	0	0
N WAILUA DITCH 1051	A														13.14				.0	0				
PH WAINIHA 1115															13.86	3.78	4.71	26	.0	0		20	6	3
PUEHU RIDGE 1040															.38		.23	10	.0	0		1	0	0
WAHIAWA 930	A														2.20	.51			.0	0				
WAIAHI LOWER 1054		81.1	66.6	73.9		84	29	63	31+		0	0	0	0	8.48		1.07	26	.0	0		23	6	1
WAIMEA 947															.21	- .26	.21	26	.0	0		1	0	0
ISLAND				76.9											4.58				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															.82		.40	14	.0	0		3	0	0
HONOLULU W8FC 703	R	89.2	75.2	82.2	3.4	90	31+	72	31+		12	0	0	0	2.01	1.57	.61	13	.0	0		6	1	0
KAHUKU 912	A	83.8M	71.9M	77.9M	.2	85	30+	69	23+		0	0	0	0	2.41	.52			.0	0				0
KANEOHE MAUKA 781		81.8	70.9	76.4	- .1	84	21+	68	31		0	0	0	0	5.27	.96	.65	23	.0	0		14	3	0
KOOLAU DAM 833															18.91	9.13	7.80	26	.0	0			9	3
LUALUALEI 804		87.5	73.4	80.5		90	20+	70	23+		2	0	0	0	.61				.0	0			0	0
MAKAPUU POINT 724		78.8	68.4	73.6		81	29+	60	1		0	0	0	0	4.29	3.45	1.90	11	.0	0		8	2	1
NUUANU RES 4 783															20.28	11.61	8.54	25	.0	0		20	9	6
OPAEULA 870	A	80.7	65.4	73.1	.9	84	23	62	20+		0	0	0	0	11.41	8.11	8.15	26	.0	0		15	1	1
PALOLO VALLEY 718															18.80	7.99	2.98	25	.0	0		23	11	7
PRI WAHIAWA 820.2	A	83.9	66.3	75.1		87	27+	64	30+		0	0	0	0	4.75				.0	0				
PUNALUU 884	A														5.39		1.20	14	.0	0				
WAHIAWA DAM 863	A														3.21				.0	0				
WAIAHOLE 837	A														12.74	1.80	2.52	27	.0	0		17	10	3
WAIALUA 847	A	86.1	66.5	76.3	.1	89	21	63	31+		0	0	0	0	2.17	1.43	1.36	26	.0	0		3	1	1
WAIKIKI 717.2		86.1	72.6	79.4		89	22	71	29+		0	0	0	0	.64		.10	14	.0	0		1	0	0
WAIMANALO EXP FARM		84.2	72.1	78.2		86	30+	69	11+		0	0	0	0	1.89		.44	28	.0	0		9	0	0
WAIPAHU 750	A														1.96	1.29	.65	27	.0	0		5	1	0
ISLAND				77.3											6.53				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														.87	- .01	.18	11	.0	0		4	0	0
MAPULEHU 542															5.24	2.30	.89	27	.0	0		15	2	0
MAUNALOA 511	A														1.22	- .04			.0	0				0
MOLOKAI AP 524		82.8	71.0	76.9		85	22+	69	24+		0	0	0	0	.83		.19	11	.0	0		4	0	0
ISLAND				76.9											2.04				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	76.7M	65.2M	71.0M	- .1	81	27	62	27		0	0	0	0	1.84	.12			.0	0				0
ISLAND				71.0											1.84				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														4.37	.24	.77	7	.0	0		11	2	0
HALEAKALA RS 338		64.0	45.8	54.9		69	5	40	6		0	0	0	0	2.64		.72	12	.0	0		7	1	0
HANA AIRPORT 355		83.0M	69.7M	76.4M		85	31+	67	7		0	0	0	0	6.22		.70	7	.0	0		20	3	0
HONOKOHUA 493	A														3.79	1.41	.59	28	.0	0			1	0
KAANAPALI AIRPORT		M	M	M							0	0	0	0					.0	0				
KAHULUI W8 AP 398	R	87.8	70.9	79.4	1.1	92	25	66	19+		3	0	0	0	.15	- .28	.08	11	.0	0		0	0	0
KAILUA 446		77.5	67.1	72.3	- .4	80	22+	65	7		0	0	0	0	16.69	6.54	1.40	2	.0	0		25	12	8
KEANAE 346	A														24.20	4.33			.0	0				
KIPAHULU 258															7.14	- 2.39	.99	8	.0	0		21	3	0
KULA SANATORIUM 267		73.9	57.7	65.8	- .2	76	10+	55	5		0	0	0	0	1.09	- .97	.36	25	.0	0		4	0	0
LAHAINA 361		86.7	69.0	77.9		89	15	67	29		0	0	0	0	.00	- .11	.00		.0	0		0	0	0
PAIA 406															1.49	- .40	.27	23	.0	0		7	0	0
WAILUKU 386		82.3M	71.7M	77.0M	- .4	85	27	69	7		0	0	0	0	.33	- .38			.0	0				0
ISLAND				72.0											5.68				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		81.7	66.4	74.1	.0	85	31	64	17+		0	0	0	0	8.08	4.62	1.75	10	.0	0		15	6	1
HAWAII VOLCNS NP HQ 54		69.1	55.1	62.1	- .8	74	20	53	17+		0	0	0	0	5.91	.79	.97	6	.0	0		18	2	0
HILO W8 AIRPORT 87	R	82.5	65.8	74.2	- .7	84	30+	62	11		0	0	0	0	12.27	2.45	1.42	1	.0	0		24	9	1
HUEHUE 92.1	A														2.16	- .34			.0	0				0
KAINALIU 73.2		78.3	63.7	71.0		82	21	62	29+		0	0	0	0	5.68	- 2.87	2.40	15	.0	0		10	2	2

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII JULY 1970

Station		Temperature													Precipitation								
										No. of Days									Snow, Sleet			No. of Days		
										Max.		Min.												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191		73.8	51.5	62.7		76	30+	32	15		0	0	1	0	1.03		.41	10	.0	0		3	0	0
KEAAU 92		82.0	66.1	74.1	- .3	84	22+	63	11		0	0	0	0	14.38	4.24	2.02	10	.0	0		24	11	3
KEALAKEKUA 26.2		78.2	64.6	71.4		81	28+	63	29+		0	0	0	0	4.20		1.58	24	.0	0		8	3	1
KONA (KAILUA) 68.3		M	M	M		88	12	68	29+		0	0	0	0			1.37	24	.0	0				1
KUKUIHAELE HIC 199															10.52	4.98	1.45	18	.0	0		21	7	3
KULANI CAMP 79		64.9	47.5	56.2		71	14	35	31+		0	0	0	0	8.26		1.60	7	.0	0		17	6	1
PAHALA 21		M	M	M		86	20	61	30+		0	0	0	0	.34	- 1.18	.17	28	.0	0		1	0	0
POHAKULOA 107	A														.49				.0	0			0	0
PUAKO 95.1	A	87.7	72.2	80.0		90	15	68	27		1	0	0	0	.22		.18	10	.0	0		1	0	0
PUU WAAWAA 94.1	A														1.71	- .39	.72	10	.0	0			1	0
UMIKOA 118															4.93	1.94	2.10	10	.0	0				1
WAIAKEA SCO 88.2															14.45		1.92	8	.0	0		22	12	4
ISLAND				69.5											5.91				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93° ON THE 29TH AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 30° ON THE 26TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 30.57 AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 9 STATIONS

GREATEST ONE-DAY PRECIPITATION: 8.54 ON THE 25TH AT NUUANU RES 4 783, OAHU

See Reference Notes Following Station Index

DAILY PRECIPITATION

Station		Total	Day of Month																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • •																																
ISLAND OF KAUAI																																
ANAHOLA 1114	A	2.97	.06	.16	*	*	*	.10	.04		.35	.10	*	*	1.45	.10	.02	.10	.04	*	*	.20			.02	.03	*	*	.15			.04	.01
BRYDESWOOD STA 985	A	3.78	.16	.10	*	*	*	.18	.22	.16	.06	.65	*	*	.29	.14	.12	.01	.11	*	*	.13	T		.04	.11	*	*	1.18	.01		.01	.10
EAST LAWAI 934	A	5.29	.16	.09	*	*	*	.39	.27	.20	.16	.42	*	*	.52	.32	.05	.03	.36	*	*	.52	T	.02	.15	.19	*	*	1.28	.02		.03	.11
ELEELE 927	A	1.74	.01	.04	*	*	*	.08	.07	.03	.01	.12	*	*	.07	.05			.03	*	*	.06			T	T	*	*	1.14	T		.02	.01
HALAULA 1110	A	3.24	.07	.10	*	*	*	.06	.06	.05	.36	.24	*	*	1.15	.22		.05	.03	*	*	.16			.10	.07	*	*	.44	.03	.02	.03	
HALENANAHO 1006	A	6.48	.21	.14	*	*	*	.43	.08	.35	.38	.44	*	*	.71	.18	.09		.22	*	*	.31	.02	.03	.15	.31	*	*	1.78	.04	.03	.04	.54
HUKIPO 945		.28																										.28				
ILILILUA INTAKE 1050	A	12.23	.30	.17	*	*	*	.94	.58	.31	.73	.92	*	*	1.45	.58	.65	.05	.77	*	*	.69		.01	.06	1.23	*	*	2.03	.30	.14	.13	.19
INTAKE WAINIHA PC 1086	A	9.44	.82	*	*	*	*	1.19	*	*	*	2.51	*	*	.92	*	*	*	*	*	*	*	*	*	*	.13	*	3.00	*	*	*	1.00
KALIHIWAI RES 1131	A	9.29	.37	.15	.01	*	*	*	.55	.15	.49	.54	*	*	2.25	.51	.18	.03	.16	*	*	.51			.04	.13	*	*	2.25	.56	.06	.16	.19
KANALOHULUHULU 1075		.58																										.07				
KANEHA RESERVOIR 1092	A	6.81	.30	.20	*	*	*	.30	.09	.19	.70	.70	*	*	1.75	.30	.11	.10	.05	*	*	.73	.04	.03	.17	.15	*	*	.63	.03		.14	.10
KAPAA STABLES 1104	A	2.85	.10	.13	*	*	*	.10		.03	.16	.12	*	*	.99	.20	.08	.09	.18	*	*	.02	.03			.12	*	*	.42				.08
KEALIA 1112	A	2.75	.05	.15	*	*	*	.20	.05	.02	.11	.24	*	*	1.05	.15	.10	.03	.10	*	*	.04	.01		.02	.64	*	*	.30			.02	.07
KEKAHA 944		.12										.01							.01									.10				
KILAUEA 1134	A	6.15	.02	.03	.01	*	*	*	.26	.43	.72	.07	*	*	2.45	.12	.11	.02	.15	*	*	.21	.01			.07	*	*	1.24	.08		.13	.02
KILAUEA FIELD 17 1135	A	6.52	.25	.04	.02	*	*	*	.30	.04	.50	.32	*	*	2.23	.28	.04	.01	.10	*	*	.26	.01		.01	.09	*	*	.90	.96	.01	.12	.03
KILAUEA POINT 1133		4.83				.15	.15	.04			.43	.05		1.70	1.02	.25	.05		.10			.05			.10				.56			.16	.02
KOLO 1033		.32										.12	.05															.15				
KOLOA 936	A	5.76	.22	.09	*	*	*	.45	.25		.37	.34	*	*	.42	.67	.02		.26	*	*	.57			.06	.15	*	*	1.38	.08	.02	.05	.36
KOLOA MAUKA 994	A	7.65	.14	.13	*	*	*	.52	.18	.54	.41	.54	*	*	.64	.23	.17	.09	.29	*	*	.28	.07	.05	.07	.37	*	*	2.31	.06	.04	.31	.21
KOLOKO RES 1137	A	5.88	.05	.10	.01	*	*	*	.26	.15	.55	.16	*	*	2.62	.20	.10	.01	.09	*	*	.31				.09	*	*	.78	.15		.25	
KUKUIULA 935	A	2.98	.04	.07	*	*	*	.13	.05	.05	.12	.11	*	*	.11	.10		T	.35	*	*	.27		T	.01	.06	*	*	1.15	.11		.12	.13
LIHUE VARIETY STA		5.24	.10	.22		*	*	.39	.06	.12	.33	.22	.02	1.07	.20	.19	.03	.05	.65	.02	.35		.05	.02	.07	.12	*	.57		.15	.16	.08
LIHUE 1020	A	3.85	.11	.11	*	*	*	.12	.03	.14	.18	.06	*	*	.73	.02		.02	.18	*	*	.03	.02	.10	.09	.20	.14	.58	.74	.04		.14	.07
LIHUE WB AP 1020.1	R	1.76	.08	T	T	.08	.01	.02	.02	.15	.17	.01	.32	.01	.06		.01	T	.13	T	.02		.02	.09	.10	.01	.30	.01	T	T	T	.06	
MAKAHUENA POINT 940.1		3.42					.06	.20		.07	.02	.30	.01	.08		.05			.06	.18	.02				.01	.15	.28	1.83		.04		.08	
MAKAWELI 965	A	.20									.05		.05		.01			.01								.03	.05						
MANA 1026		.54										.13		.05														.36					
MOHIHI UPR CROSS 1083	A	4.34	.10				.10	.21	.10	.21	.10	.21	.21	.21	.10		.10		.62	.10					.10	.10	.10	1.46			.21		
MOLOAA 1145	A	3.97		.07	*	*	*	.07	.05	.02	.18	.12	*	*	2.15	.08	.07		.05	*	*	.09				.04	*	*	.52	.25		.21	
MOUNT WAIALEALE 1047		30.57	.83	.16	.32	.67	.83	.63	.24	2.80	1.10	2.20	3.54	.90	1.69	1.10	.47	.12	1.42	.32	.55			.12	1.26	1.61	3.66	2.56	.08	.24	.24	.87	.04
NIU RIDGE 1035		.94									.20	.06			.07														.61				
N WAILUA DITCH 1051	A	13.14	.50	.35	*	*	*	1.05	.56	.20	.76	1.00	*	*	1.90	.76	.46	.20	.50	*	*	.90			.20	.90	*	*	2.10		.10	.50	.20
PH WAINIHA 1115		13.86	.15	.15	.01	.06	.33	.42	.30	.34	.59	2.00	.04	1.19	.61	.64	.05	.03	.25	.32	.21	.02		.01		.32	.12	4.71	.02	.18		.47	.32
PRINCEVILLE RANCH 1117		6.86	.06	.05	.03	.02	*	.38	*	.20	.50	*	.22	1.72	.62	.12	.02		.18	.02	.07	.03						1.75	.09	.37		.38	.03
PUEHU RIDGE 1040		.38									.08	.23			.07																		
PUHI 1013	A	4.79	.16	.11	*	*	*	.17	.18	.22	.20	.30	*	*	.68	.11	.04	.03	.23	*	*	.19		.03	.19	.39	*	*	.91	.04	.05	.20	.36
RESERVOIR 6 1004	A	6.47	.17	.11	*	*	*	.42	.11	.46	.43	.41	*	*	.59	.21	.05	.06	.21	*	*	.38	.02	.08	.11	.47	*	*	1.52	.17	.04	.23	.22
WAHIAWA 930	A	2.20	.05	.04	*	*	*	.09	.18	.14	.07	.12	*	*	.02	.03	T		.06	*	*	.13		T	.02	.05	*	*	1.19	T			.01
WAHIAWA MOUNTAIN 990	A	12.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.13
WAIAHI LOWER 1054		8.48	.28	.30	.04	.02	.24	.46	.24	.29	.41	.54	.10	.93	.27	.53	.04	.03	.63	.15	.13	.19		.02	.09	.50	.29	1.07	.30	.12	.03	.12	.12
WAIAHI UPPER 1052		10.87	.25	.27	.02	.03	.25	.58	.59	.30	.61	1.18	.40	.68	.31	.55	.16	.05	.64	.33	.32	.01		.01	.05	.75	.75	.95	.40	.20	.11	.10	.10
WAIAKI 943		1.11										.02																.07	.02				
WAILUA KAI 1065	A	2.98	.10	.17	*	*	*	.27	.09	.05	.04	.20	*	*	.50	.15			.09	*	*	.47		.10	.04	.10	*	*	.43	.07			.11
WAIMEA 947		.21																										.21				
WEST LAWAI 931	A	2.96	.05	.06		*	*	.17	.13	.06	.12	.16	*	*	.12	.11			.22	*	*	.30		.02	.02	.08	*	*	1.25	T		.05	.04
• • •																																
ISLAND OF OAHU																																
AIEA FIELD 525 761	A	4.30	.18	.02				.17		.08					.25	.12						.04		.06	.06	.05			2.81	.09	.06	.21	.10
BERETANIA PUMPING STA		1.93		.07				.02	.01	.07	.02			.01	.02	.14	.01	T				.04	.02		.01	.03	.02	.18	.03	.02	.22		.15	.13
CAMP 84 807	A	1.91	*	.02		*	*	.02	*	*	.03			*	.34	*	*	.19			*	*	.02	*	*	.03	*	*	*	.89	*	*	.37	*
CHURCH COLLEGE LAIE		4.28	.12	.05	.03	.04	.01	.09	.17	.06	.30	.17	.64	.03	.10	.70	.03		.23	.20	.03			.02	.43	.03	.15	.02		.04		.49	.10
COCONUT ISLAND 840.1		1.55				.01				.16		.02	.30	.04	.04	.02				.28				.08	.05	.03	.08	.04	.01	.08	.01	.11	.19
EWA PLANTATION 741		1.11								.02				.26		.58									.02	.11		.04		.05		.02	.01
HELEMANO INTAKE 881	A	15.19	*	.22	*	*	*	.22	*	*	.33	*	*	*	1.00	*	*	.36	*	*	*	.55	*	*	.23	*	*	*	11.21	*	*	1.07	*
HOKULOA 725.2	A	2.16	*	*	*	*	*	.11	*	*	*	*	.32	*	.15	.50	*	*	*	*	.10	*	*	*	*	*	*	.65	*	*	*		.33
HONOLULU OBSERV 702.2		.82	T						T			T	T	.19		.40			T	.04				T	.03	.05	T	.03		.15		.02	
HONOLULU WBFC 703	R	2.01	T		T	T	T	.01	.03	.06	T	T	.24	T	.61	.01	T	T	.03	.02				T	.07	.04	.18	.31		.28	.01	.11	
HONOLULU SUBSTA 704		1.44		.02						.09			.12		.62				.02	.04				.02		.03	.12		.15	.04		.17	
H S P A EXP STA 707		2.87	.06		.05	.03			.04	.14			.04	.14	.11	1.07	T		.09	.08				.08	.08	.05	.23	.12		.24		.09	.13
KAHANA 883	A	-	-	-	-	-	-	-	*	*	*	*	*	*	7.60	*	*	*	*	*	*	2.15	*	*	*	*	*	7.94	*	*	*	3.00	
KAHUKU 912	A	2.41	.06	.02	*	*	*	.06	.10	.03	.07	.20	*	*	.70	.23	.02		.03	*	*	.03		.10	.23	.10	*	*	.10			.10	.23
KAILUA FIRE STA 791.3		1.82				.04	.04	.03	.02	.03	.01	.04	.14	*	.05	.02	.04	.01	.03	.11				.06	.25	.05	*	.12	.04	.45	.06	.09	.09
KALIHI RES 5ITE 777		18.02		.02	.16	.20		.02	.40	.38	.04	.10	.80	.04	.60	.18	.02	.06	.82	.48	.12	.02		.22	2.00	1.00	7.26	*	1.14	1.46	.08	.36	.02
KANEOHE MAUKA 781		5.27	.07	.03		.06	.02	.08	.01	.44	.02	.24	.58	.17	.14	.20	.01	.01		.50		.01		.01	.65	.37	.33	.28		.35	.32	.07	.35
KANEOHE RANCH 838	A	4.81	T	.02	*	*	.04	.03	T	.30		.03	.33	*	.50	.04	*	*	.23			*	*	.20	.45	.40	.28	*	.25	1.10	.01	.35	.25
KAPALAMA 773	A	3.05		.10	*	*	*	.30	.10		.15		*	*	.70	.85			.25	*	*	.12			.15		*	.20			.13		.04
KAWAIHAPAI 841	A	2.23	.02		*	*	*	.07	T	.02	.07	.03	*	*	.59				.11	.14				.01		.06	.08	.97				.04	.02
KAWAI IKI INTAKE 880.2	A	20.00	*	*	*	*	*	*	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.00	*	*
KEMOO CAMP 8 855	A	3.05	.05	.01	*	*	*	.11	.01	.07	.01	.01	*	*	.53	.01			.04	*	*	.15		.03	.01	.01	*	*	1.90	.02		.07	.01
KOOLAU OAM 833		18.91	.32	.17	1.18	.38	*	.15	.96	.68	.10	.62	.41	.19	.35	.31	.30	.05	.58	.21	*	*	.08	.20	.74	.06	2.06	7.80	.01	.78	*	.28	.05
LUALUALEI 804		.61											*		.12	.12								.01	.01		*	*	*	.33			.02
LUALUALEI WTR TUNNEL	A	8.45	*	*	*	*	*	*	*	*	*	6.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.80
LUNALILO HOME 724.2		1.61		*	.10									*	.37									.44	*	.20	.10			.40			
MAKAHA KAI 796.1	A	.56									T			.07	T	.14									T	.02	T	.20					.18
MAKAHA PUMP 800.2	A	.45								.01				.04														.30					.05
MAKAPUU POINT 724		4.29	.03		.05		.03					.02	1.90	.17	.05	.13			.01	.05				.11	.13			.01		.42		.90	.28
MANOA 712		8.19	.15		.06	.28	T		.25	.26	.13	.04	.40	.46	.32	1.38	.08		.38	.41				.18	.48	.46	.46	.85	.75	.04	.15	.04	.17
MANOA TUNNEL 2 716		20.94	.12	.14	.60	.14	.06	.02	1.06	.54	.20	.42	1.52	.40	1.36	.14		.12	.90	.68	.02		.16	.58	2.06	.94	3.80	3.08	.16	1.20		.50	.02
MOANALUA 770		5.12	.05		.07	*	.05	.04	.02	.14	.02	.01	*	.26	.07	.66	.05	*	.18	.03				.03	.07	.06	.44	2.35		.31		.16	.05
NUUANU RES 4 783		20.28	.02	.02	.18	.06		.02	.16	.26	.30	.18	1.34	.40	1.54	.14		.08	.92	.36			.12	1.36	.92	8.54	1.34	.24	1.12	.02	.52	
NUUANU RESERVOIR 5 775	A	12.54	.07	.06	*	*	*	.40	.11	.29	T	.18	*	*	1.38	1.20	.05	T	.48	*	*	.37	.03	.09	.65	.34	*	*	5.73	.79	T	.22	.10
OPAEULA 870	A	11.41	.13	.01	.04	.26	.04	.10	.05	.20	.02	.12	.05	.34	.18	.11	.02	.02	.41	.20				.05	.14	.06	.35	8.15		.04		.22	.10
PALOLO VALLEY 718		18.80	.04	.24	.60	.22	.06	.02	.30	.38	.36	.14	1.22	.28	2.00	.18	.02	.12	.92	.22	.02		1.26	.52	2.08	.78	2.98	1.70	.22	1.38	.02	.48	.04
PAUOA FLATS 784		27.04	.18	.06	.64	.20	.04	.04	.42	.46	.46	.38	1.44	1.00	2.30	.34	.12	.08	1.38	.56			.08	.24	2.56	1.36	7.36	2.56	.36	1.46	.02	.92	.02
PORTLOCK ROAD 724.4		2.60						.01	.01				*	*	.52	.36	.42	.58	.60				.01			.02				.04	.03		
PRI WAHIAWA 820.2	A	4.75	.09	.01	.01	*	*	.08			.17	T		*	.22	.18			.09	*	*	.08		.01	.02	.03	*	*	3.03	.30	.18	.18	.07
PUNALUU 884	A	5.39	.01	.17	*	*	*	.21	.08	.23	.07	.13	*	*	1.16	1.20	.02		.15	*	*	.23	.01	.06	.35	.15	*	*	.40	.04		.47	.25
PUNCHBOWL CRATER 709	A	2.33	.05	.02	.01	.12	.01		.05	.06	.02			.03	.06	.12	.95	.01		.07	.05	.01			.01	.03	.05	.03	.18	.04	.01	.19	.15
ST STEPHENS SEM 788		5.66	.05	T	.03	T	.01		.02	.15	.05	.05	.30	.42	.26	.08	T	.01	.11	.59			.01	.12	.40	.44	.31	.56		1.03	.15	.28	.23
TANTALUS 2 780.5		16.77	.40	.16	.46	.59	.02	.18	.31	.43	.23	.40	.22	.67	.66	1.28	.17	.07	.59	.67				.18	.52	.97	*	*	5.51	.82	.11	.50	.72
UNIV OF HAWAII 713	A	3.04	.07	T	*	*	*	.14	.09	.10	.01	.04	*	*	.47	.56	.01		.23	*	*	.13		.10	.14	.11	*	*	.49	.20		.04	.11
WAHIAWA OAM 863	A	3.21	.05	.11	*	*	*	.20	.05	.17	.01	.02	*	*	.35	.02			.07	*	*	.12		.03	.05	.03	*	*	1.70	.08		.12	.03
WAIAHOLE 837	A	12.74	.23	.07				.57	.16	.87	.60	.08			2.28	.32	.02	.08	.28			.64	.02	.45	.53	1.33			2.52	.38	.19	.54	.58
WAIALAE KAHALA 715		1.53	.02	.01	.02	.02	T	T	.02	T	.02	.01	.05	.01	.03	.23	T	T	.11	.25				.04	.11	.12	.06	.06		.11	T	.10	.13
WAIMALU 847	A	2.17	T			.05		.02	T	.03	.07			.28					.14	.08				.01	T	T	.08	1.36				.05	T
WAIANAE 798.2	A	.88								.02	T		.01	.02	.01	.13				.02				.03	T		.04	.57		T			.03
WAIANAE MAUKA 803	A	3.93	.14	*	*	.42	*	*	*	.21	*	*	.28	*	*	*	.18	*	*	.20	*	*	*	.24	*	*	1.24	*	*	*	1.02	*	*	*
WAIAWA 836	A	20.98	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.98
WAIKANE 885	A	11.38	*	*	*	*	*	1.26	*	*	*	*	*	*	3.90	*	*	*	*	*	*	1.20	*	*	*	*	*	3.04	*	*	*	*	1.98
WAIKIKI 717.2		.64	T	T	.02					.02			.04	T	.07	.10			.06	.09				.05	.06	T	.03	.05		.05	T		
WAIMANALO EXP FARM		1.89			.05					.18	.03		.21	.11	.13	.02			.05	.10					.22	.12	.06			.44	.01	.12	.04
WAIMEA 892	A	10.78	.05	.10	*	*	*	.35	.05	.03	.08	.62	*	*	1.06	.09			.17					.05	.06	.07	*	*	7.65			.22	.13
WAIPAHU 750	A	1.96	.01	.01						.02					.37	.32						.08			.07	.02			.65	.15	.04	.14	.08
WILHELMINA RISE 721		4.16	.02		.10	.06		.02	.04	.18	.12	.02	.48	.08	.82	.02	.02	.08	.30	.04			.08	.10	.34	.10	.18	.14	.22	.24	.02	.28	.06

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • •																																	
ISLAND OF MOLOKAI																																	
KALAUPAPA 553	A	3.25	*	.13	.09	.14	.20	.07	*	*	.06	.04	.12	.45	.25	.04	*	*	*	.09	*	.24	.12	.04	.19	*	.14	.06	.35	.13	.10	.20	*
KAUNAKAKAI 536	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KEONELELE #ENS 551	A	.00											.18	.02									T	.14	.02	.07	.09	*	.01	.12	.01	.12	
KUALAPUU 534	A	.87			.03	.01	*	.05						.20									.20	.26	.13	.03	.03	.05	.89		.48	.28	.03
MAPULEHU 542		5.24	.13	.49	.15	.08	.08	.13	.49	.50	.03	.29	.03	.14	.02	.02		.05	.23													
MAUNALOA 511	A	1.22	.01										*	.62	.02									.01	.03	.04	.34			.07		.06	.02
MOLOKAI AP 524		.83	.08		T	T		T		T			.19	T						.10				.06	T	.10	T	.08	.14		
PUUOHOKU RANCH 542.1		3.66	.11	.11	.12	.14	.08	.71	.03	*	*	*	*	.18	.05	.04			.19	.06		T	.10	.42	.31	.13	.12	.45	T	.08	.23	T	T
WAIKOLU 540	A	3.15	*	*	*	*	*	*	*	*	*	*	*	*	1.23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.92	*	*
• • •																																	
ISLAND OF LANAI																																	
KANEPUU 690	A	.58			*	*	*	*	*	.04	*	*	*	*	*	*	.02	.52								*	*	*	*	*	.02		
KAUMALAPAU HARBOR 658	A	.51											*	.27			.02								T	.03	*	*	.07	*	.12		T
LANAI CITY 672	A	1.84	.02		T	T		T	T	T	.21	.01	.05	*	.92	.36	T	T	T	T		T	T	T	.04	.01	.03	*	.03	.08	.07	.01	
LANAIHALE 684	A	1.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.43
MAHANA 694	A	.16			*	*	*	*	*	*	.01	*	*	*	*	*	*	.15														T	
MALAUEA 676	A	.59			*	*	*	*	*	*	.01	*	*	*	*	*	*	.50								*	*	*			.05	.03	
PALAOEAKUA 685	A	.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	
• • •																																	
ISLAND OF MAUI																																	
AUWAHI-252	A	.07													.07																		
MALEAKALA 8 E S 434	A	4.37	.20	.70	.38	.42	.16	.02	.77			.07	.26	.04	.09			.35		.07				.13	.40	.10	.06	.05		.07			.03
MALEAKALA RANCH 432	A	1.07	*	.35	*	.14	*	.07	*	*	*	.30	*	*	.08	*	*	.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MALEAKALA RS 338		2.64	.28	.07	.04		.03	.01	.04	.16	T	.38	.37	.72	.03	.01		.03	T	.07				.02	.14	.04	T	.01		.13	T	.03	.03
MALEAKALA SUMMIT 338.4		.90		.02						.22	.03	.15	*	*	.12				.03	*	*	.13							.20			
MALIIMAILE 423	A	2.23	.20	.17	.30	.11	*	.17	.07			.03	.21	*	.09	.08			.08						.19	.31	.09			.12			.01
MAMAX JAPOKO 485		3.74	.20	.24	.43	.32	.07	.10	.12	.01		.02	.38	.04	.14	.09		.01	.01	.07	.01			.06	.56	.23		.06		.21	.31	.01	.04
MANA 354		6.01	.98	.20	.09	.48	*	.44	.78	.40	.13	.20	.04	*	.83	.11	.19	.07	.11	.18			.03	.02	.23	.04		*	.09	.30	.07		
MANA AIRPORT 355		6.22	.58	.52	.04	.20	.18	.05	.70	.10	.06	.45	.42	.33	.46	.11	.15	.04	.19	.28	.05		T	.14	.14	.18	.16	.03	.08	.32	.08	.18	T
MANAHULI 281		6.30	1.03	.22	.18	.20	.20	.10	.88	.80	T	.10	.42	.13	.38	.05	.30	.10	.10	.13			.05	.03	.12	.08	.10			.12	.10	.08	.30
MOLUA CABIN 259.5	A	1.59	.25	*	*	*	*	*	*	*	.75	*	*	*	*	*	*	*	*	*	*	.25	*	*	*	*	*	.23	*	*	*	.11	*
MONOKOHAU 480	A	14.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.30
MONOKOHUA 493	A	3.79	.12	.23	.31	*	*	.32	.13	.12	.15	.02	*	*	.35	.11	.02			*	*	.35		.06	.37	.21	*	*	.17	.59	.03	.05	.08
MONOMANU GULCH 341	A	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00
KAANAPALI AIRPORT		-	-	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03		-	-	-	.02	-	-	-
KAHOMA INTAKE 374	A	2.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
KAHULUI WB AP 398	R	.15	T	.02	.01	T	.01	T	*	*	T	.01	.08	T	T		T	T	T	T			T	.01	.01		*	*	*	T			
KAILILI 435	A	1.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.65
KAILUA 440		16.69	.99	1.40	1.28	.42	.40	.38	1.04	.44	.35	.83	1.30	.19	.48	.25	.04	.05	.14	1.10	.04		.06	.30	1.06	.55	1.35	.50	.14	1.06	.20	.06	.29
KAUAULA INTAKE 375	A	1.95	*	*	*	*	*	*	.48	*	*	*	*	*	.72	*	*	*	*	*	*	.14	*	*	*	*	*	*	.61	*	*	*	*
KEAHUA 413		.22	.04	.02	.04	.01						.02	.02					.05		.01					.01								
KEANAE 346	A	24.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.20
KEAWAKAPU BEACH 260.2		.02																												.02			
KIHEI 311		.00																															
KIPAHULU 258		7.14	.90	.22	.22	.36	.40		.26	.99	.12	.28		.45	.60	.11	.10	.30	.07			.11	.05	.08	.16	.28			.17	.39		.15	.37
KULA HEIGHTS 323.2		.62							.12					.25	.05											.20							
KULA SANATORIUM 267		1.09								.05		.16	T	.17	.03	.18				.01	T					.07	.36	.05		.01			T
LAHAINA 351		.00																															
LAUNIUPOKO INTAKE 376	A	2.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.05
LAUNIUPOKO VILLAGE 372	A	.00																															
LUPI UPPER 442	A	17.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.10
MAHINAHINA 466	A	2.44	.38	.20	.21	.18			.37						.08	.03								.09	.32	.08			.10	.12	.20		
NAKALELE -FLD 60-497	A	4.38	*	*	*	*	*	.71	*	*	*	*	*	*	.63	*	*	*	*	*	*	.50	*	*	*	*	*	*	1.40	*	*	*	1.09
OLINDA 332	A	1.73	.01	*	*	*	*	*	.02	.17	T	.23	*	*	.10	.04	T	.09	T	*	*	.02		.06	.10	.04	*	*	.80	.02		.02	.01
OLOMALU 296		.00																															
OLOMALU GULCH 377	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
PAAKEA 350		22.11	1.57	1.77	1.06	.99	.79	.28	1.38	.85	.51	1.23	1.48	.51	.98	.62	.16	.17	.23	.92	.31		.04	.53	.90	.74	.96	1.16	.10	.99	.25	.27	.36
PAIA 406		1.49	.07	.12	.20	.10	.04	.03				.01	.20	.01	.11	.01		.01	T	T				.01	.27	.08	.03			.07	.12		
PANILEIHULU 259.2	A	2.10	*	*	*	*	*	*	*	*	*	*	*	*	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.10
POHAKEA BRIDGE 307.2	A	.00																															
POLIPOLI SPRINGS 267.2	A	2.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.46
PUOHOKAMOA 2 343	A	41.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	30.00	*	*	*	*	*	*	*	*	*	*	*	*	*	11.60
PUU KUKUI MAKAI 472	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.00
PUUNENE 396		.09	T	T	.01		T						.08												T								
SPRECKELSVILLE 400.2		.46	.04	.04	.07	.03	.04					.01	.10	T	.04										.06	.01				.01	.01		
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	2.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.80
UKUMEHAME 301	A	.00																															
ULUPALAKUA RANCH 250		2.44	.02							.02		.20			.82					.14				.12	.03	.04				.20	.04		.83
WAHIKULI 364	A	.14										.14																					
WAIEHU CAMP 484	A	1.54	.10	.08	.20	*	*	.02	*	.04	.10	*	*	.20	.04	.04	*	*	*	*	.33	.03	*	*	*	.12	*	*	*	.12	*	*	.10
WAIHEE VALLEY 482	A	2.52	.17	.09	.34	*	*	.11	*	.06	.20	.23	*	.36	.05	.19	*	*	*	*	.30	.06	*	*	*	.10	*	*	*	.17	*	*	.09
WAIKAMOI 449	A	18.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.00
WAIKAMOI DAM 336	A	15.92	2.75	*	*	*	*	*	1.87	.68	.07	1.22	*	*	1.42	.05	.25	.82	.09	*	*	1.03	.01	.33	1.18	.88	*	*	.57	2.06	.03	.13	.48
WAIKAPU 390	A	.09	*	.04	*	*	*	*	*	*	*	*	.05																				
WAILUKU 386		.33	.01	.03	.03								*	*	.12							.11								.02	.01		
WAIOPAI RANCH 256	A	.00																															
• • •																																	
ISLAND OF HAWAII																																	
AHUA UMI 75	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	2.23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00
AWINI 182.1	A	9.16	*	*	*	*	*	*	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.93	*	*	*	*
EAST HONOKANE 183.2	A	24.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.50
MAINA 214		8.08	.17	.83	.68	.28	.10	.47	.76	.26	.24	1.75	.10	.49	.04			.89	.09	.58	.03			.16	.06				.05	.05			
MAKALAU 142		13.51	1.73	.73	.56	.20	.52	.83	.85	.64	.70	1.69	.22	.45	.34	.17	.24	.69	.23	.80				.13	.23	.03	.02	.34	.24	.56	.05	.02	.30
MALEMAUMAU 52	A	.98	*	*	*	*	*	*	*	*	*	.74	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.24
MALEPIULA 117	A	.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.50
MALEPUHEHE 111	A	.93							T	T		.37		T	.01		.05	.31		.02									.03	.09	.05		
HAWAII VOLCNS NP HQ 54		5.91	.37	.80	.37	.17	.24	.97	.29	.41	.21	.48	T	.15	.20	.16	.14	.10	.12	.14	.01	T		.08	.12	.09	.02	.09	T	.08		.09	.01
HAWI 168	A	6.03	.17	.64	.36	*	*	*	1.20	.06	.06	.17	*	*	.08	.06	.08	.66	.06	*	*	.98	.01	.06	.35	.20	*	*	.21	.47	.01	.04	.10
HILO COUNTRY CLUB 86.6		19.86	1.30	1.80	.78	.90	1.25	1.70	1.05	2.00	.02	2.35		.70	.60	.40	.30	.90		.50	.70			.32	.16	.06	.10	.70	.22	1.00			.05
HILO WB AIRPORT 87	R	12.27	1.42	.40	.27	.37	.72	.90	.47	.64	.98	.95	.07	.56	.04	.38	.45	.57	.12	.31			.04	.43	.31	.26	.27		.84	.16	.03	.12	.19
HOLUALOA 70	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				2.00	*	*	*
HOLUALOA BEACH 68	A	1.53		*	.17									.35											.05	.65					.31		
HONAUNAU 27		5.39	.40	.60	.21	.02	.04	.07	.06	.05	.19	.01	.04	.05	.10	.16	.45	.12	.02	.02	.02	.01	.03	.06	2.05	.08				.04	.37	.02	.10
HONOHINA 137		12.24	.78	1.53	.50	.22	.5	1.15	1.30	.86	.33	1.26	.07	.10	.25	.03	.30	.38	.19	.72	.07			.26	.17	.13	.10	.30	.18	.30		.01	.21
HONOKANE 181.1	A	15.79	*	4.02	*	*	*	*	4.55	*	*	*	*	*	4.23	*	*	*	*	*	*	*	*	*	*	*	*	*	2.99	*	*	*	*
HONOMU MAUKA 138		19.88	1.49	1.89	1.13	.88	.88	.70	1.41	1.01	.62	2.54	.35	.22	.29	.12	.58	.91	.28	1.50	.12	.02		.55	.43	.52	.03	.48	.20	.53	.02	.06	.12
HONUAULA 71	A	1.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.50	*	*	*
HUALALAI 72	A	.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.65	*	*
MUEHUE 92.1	A	2.16	*	*	*	*	*	.22	*	*	*	.72	*	.05	*	*	*	*	*	*	*	*	*	.75	.33	*	*	*	*	*	*	*	.05
KAALA IKI 12	A	1.90	.10	.41	.03	T		.09	T	.02	T	.09	.17	*	.02	.06	T			.04					.04	T		.29		.54	T		
KAAWALOA 29	A	4.30	.10	.10	*	*	*	.93	T	.09			*	*	.22	.07	.78	.09	.01	*	*	T			.13	1.38				.10	.26	T	.04
KAINALIU 73.2		5.68	.13	.15	.48		.05		.02	.02			.29		.16	.02	2.40	.18			.01				.11	1.49	.01				.06	.10	
KALAPANA NO 1 67.8		7.21	.28	1.02	.41	.12	.48	.02	.34	.45	.18	1.61	.01	T	.16	.11	.02	.21	.07	.03	T			.04		*		.38	.38	.01	.80	.05	.03	T
KAMADA NO 2 5	A	3.0	*	*	*	.90	*	*	*	*	*	*	*	*	*	*	.02	*	*	1.62	*	*	*	*	*	*	.48	*	*	*	*	*	*
KAMUELA 192.2		2.36	.02	.26	.05	.10	.21	.06	.12	.02		.94		.05	.02		.02	.02	.05	.08	.05	*		.04	.04	.04	.05	.08		.02	.02		
KAMUELA AIRPORT 191		1.03	T	.06	.03	.15	.16	T	T	T		.41	T	.01	T			.01	T	.08	.03	T		T	.06	T		.03	T	T		T	
KAPAPALA RANCH 36	A	.53	*	*	*	.14	*	*	*	*	*	*	*	.31	*	*	*	*	*	*	*	*	*	*	*	*	.08	*	*	*	*	*	*
KAPOHO LANDING 93.5	A	13.72	*	3.05	*	*	*	*	*	*	*	5.67	*	*	*	*	*	*	2.00	*	*	*	*	*	*	1.45	*	*	*	*	*	*	1.55

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KAWAINUI LOWER 193	A	24.21	*	*	5.73	*	*	*	*	*	*	7.75	*	*	*	*	*	*	5.18	*	*	*	*	*	*	2.60	*	*	*	*	*	*	2.95
KEAAU 92		14.38	.41	1.11	.75	.61	.46	.71	.81	1.84	.82	2.02	.19	.10	.26	.49	.10	.41	.65	.31				.15	.33	.12	.12	.77		.69		.09	.06
KEALAKEKUA 26.2		4.20	.04	.13	.61	T	.06	.11	T				.09	T	.05	.09	.78	.06			T			.01	.13	1.58	T			.20	.24	.01	.01
KEHENA 181.2	A	15.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	15.00
KIOLAKAA 4 2 F 6	A	4.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.70	*	*	*
KIPA 89.2	A	19.99	.02	1.64	.74	1.50	1.81	1.65	1.60	1.47	.12	2.94	.09	.13	.30	.33	.19	.82	.99	.41	.03	T		.20	.30	.17	.30	.77	.03	1.24	.07	.01	.12
KOHALA 179.1	A	7.67	.11	.55	.51	*	*	*	1.39	.18	.23	.21	*	*	.19	.04	.10	.45	.36	*	*	1.29		.03	.27	.18	*	*	.42	.74	.03	.08	.31
KOHALA MAULILI 176	A	10.04	.11	1.29	.37	*	*	*	1.42	.32	.35	.86	*	*	.48	.02	.06	.81	.59	*	*	1.80	.01	.09	.21	.27	*	*	.28	.43	.12	.03	.12
KOHALA MISSION 175.1		8.39	.18	.62	.45	.34	.29	.11	.80	.31	.14	.31	.04	.09	.14	T	.10	.83	.13	1.63	.01	T		.03	.29	.28	.03	.27	.04	.63	.02	.02	.26
KOIAWE LOWER 196	A	18.13	*	*	4.05	*	*	*	*	*	*	7.56	*	*	*	*	*	*	3.10	*	*	*	*	*	*	1.32	*	*	*	*	*	*	2.10
KONA (KAILUA) 68.3		-	-	-	-	-	-	-	-	-	-	-	-	.66	.05		.03																
KONA VILLAGE 93.8		.42						.08			.12														.03	1.37	.36			T			
KUKAIAU 222		10.65	.41	.80	.22	.46	.80	.87	1.01	.37	1.17	2.80	.22	.09	.01		.03	.23	.33	.43				.10	.22	.05		T		.21			
KUKUIHAELE MIC 199		10.52	.14	1.16	.34	.24	.40	.52	.80	.18	.76	1.33	.54	.46	.22			.45	.59	1.45	.22			.14	.30	.07		.38	.18	.18	.02	.02	.02
KUKUIHAELE MILL 206	A	7.08	.25	.80	.23	*	*	*	1.53	.20	.73	1.18	*	*	.36			.30	.07	*	*	.73		.16	.19		*	*	.23	.07		.02	.03
KULANI CAMP 79		8.26	.40	.78	.15	.15	.52	.95	1.60	.71	.03	.66	.06	.12	.47	.07	.05	.15	.14	.33				.04	.02	.21	.05	.36		.17		.03	.04
KULANI MAUKA 76	A	1.92	.31	.05	T		.16	.16	.14	.17	.04	.20	.07	.05				.13	.10	.01					.12	.02	.05		.03	.05		.04	.02
KULANI SCHOOL SITE 78	A	6.49	*	*	*	1.65	*	*	*	*	*	*	3.06	*	*	*	*	*	*	1.35	*	*	*	*	*	*	.43	*	*	*	*	*	*
LANIHAU 68.2		3.89		.04	.19	.07		.10	.69			.09		.19	.15		.47									1.60	.15				.15		
MANUKA 2	A	3.69	.04	.01		*	*	1.38	.04	*	*	.15	*	*	.48	.09				*	*	.32			T	.15	*	*	.44	.03	.48	T	.08
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAUNA LOA SLOPE DBS		.16								.12		T						.03									.01						
MIDDLE HOLUALOA 68.1	A	1.79	*	.11	*	*	*	*	*	*	*	*	.75	*	*	*	*	*	*	*	*	*	*	*	.13	.45	*	*	*	*	.25	*	*
MIDDLE PEN 147.1	A	.43	*	*	*	*	*	*	*	.14	*	*	.29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MOAULA 18	A	.61	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.61
MOUNTAIN VIEW 91		18.32	.49	1.42	.64	.82	.62	.92	1.06	1.71	1.85	2.28	.57	.29	.77	.38	.53	.44	.60	.46				.32	.28	.14	.12	.78		.62	.01	.06	.14
NAALEHU 14	A	.99	T	.53	*	*	*	*	.04	.02		.02	*	*	.03	.14	.01			*	*	T			.02	.05	*	*	.13				
NAPOOPOO 28	A	3.21	*	*	*	*	*	.69	*	*	*	*	*	*	.26	*	*	*	*	*	*	.64	*	*	*	*	*	*	1.62	*	*	*	*
NAULU FOREST 38.6		2.56	.06	*	.41	.03	.26	.19	.06	.38	.05	.36	T	.08	.07	.05	.21	.06						.04		*	.07	.13	T	.05			
NIULII 179	A	9.99	.12	.66	.57	*	*	*	1.82	.30	.48	.47	*	*	.22		.07	.60	.65	*	*	1.71		.04	.27	.33	*	*	.58	.75	.06	.02	.27
OOKALA 223		12.97	.47	1.10	.55	.70	.57	.45	1.13	.89	1.24	3.28	.33	.27	.05		.07	.21	.35	.42	.04	T		.11	.06	.22		.03		.38	.05		T
OPIHIHALE 2 24.1		4.71	.03	.57	T		.47	T	.27	.10	T	.04	.02	.08	.08	.27	.03	T	.02			.01		.04	2.09	T	T	.04	.16	.28	.01	.04	.06
ORCHID LAND EST 91.5	A	15.99	*	3.73	*	*	*	*	*	*	*	7.41	*	*	*	*	*	*	1.69	*	*	*	*	*	*	1.78	*	*	*	*	*	*	1.38
PAAUHAU 217		7.91	.10	.80	.34	.47	.10	.34	.82	.29	.18	2.11	.09	.28	.02		.01	1.05	.07	.40		.01		.30	.02				.06	.04			.01
PAAUILO 221		V10.63	.30	.60	.11	.41	.63	.76	1.00	.37	.61	2.60	.05	.11	.01		.04	.20	.26	.30	T			.08	.03	.01				.14	T		.03
PAHALA 21		.34		.08	.02							.02	*	*	.01	.01											*	*	.03	.17			
PAHOA 65		14.93	.94	1.26	.35	.54	.40	.61	.70	1.15	.56	1.64	.47	.24	.62	.34	.25	.36	.33	.33			.05	.45	.63	1.02	.09	.64	*	.42	.03	.33	.18
PAKAD 37	A	1.73	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.73
PAPAIKOU 144.1		14.55	.84	1.06	.61	.58	.62	.71	1.24	.68	1.13	1.10	.12	.26	.34	.53	.25	.50	.41	.46	T			.30	.35	.02	.11	.32	.12	.69	.03	.15	1.02
PAPAIKOU MAUKA 140.1		20.35	.04	1.45	.95	1.19	1.02	1.45	2.42	1.60	.65	1.76	.10	.14	.43	.38	.27	.54	.79	.66	.41	T		.14	.42	.81	.33	.94	.06	1.20		T	.20
PEPEEKEO MAKAI 144		14.51	.70	1.10	.48	.53	.48	.48	.72	1.28	1.02	2.15	.12	.22	.25	.23	.56	.58		.61	.01			.74	.33	.11	.14	.31	.25	.33	.03	.33	.42
PIIHONUA 89	A	24.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	24.08
POHAKULOA 107	A	.49	*	*	*	*	*	*	*	*	*	.03	*	.04	*	*	*	*	.42	*	*	*		*	*	*	*	*	*	*	*	*	*
PUAKO 95.1	A	.22				T						.18		.01						T						.03	T						
PUU KINE 120	A	.89	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	.89
PUU LAAU 102.1	A	1.34	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	1.34
PUU LEHUA 73	A	1.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	1.30
PUU MALI 113	A	.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	.11
PUUOKUMAU 167	A	9.44	*	2.70	*	*	*	*	*	*	1.53	*	*	*	*	*	*	2.77	*	*	*	*		*	1.63	*	*	*	*	*	.81	*	
PUU OO 82		5.35	.31	.72	.09	.02	.20	.37	.67	.49	.15	.60	.08	.13	.27	.18	.05	.17	.18	.22				.02	*	*	*	*	*	*	.42	.01	T
PUU WAAWAA 94.1	A	1.71							T			.72	*	*	.13						.12					.41	*	.33					
SADDLE ROAD 1 84	A	20.13	*	2.47	*	*	*	*	*	*	*	11.20	*	*	*	*	*	*	*	*	*	*		*	*	6.00	*	*	*	*	*	*	.46
SOUTH POINT CORRAL 3	A	.57	*	*	*	.41	*	*	*	*	*	*	*	*	*	*	*	*	*	.16	*	*		*	*	*	*	*	*	*	*	*	*
UMIKOA 118		4.93	.12	.40	*	*	*	.54	.59	.42	.15	2.10			.02	.03			.10	.35										.11			
UPOLU POINT USCG 159.2		4.33	.33	.61	.29	.36	.08	.14	.20	.02		.19	.01	.17	.01	.01		.41	T	.50				.05	.65	.08	.01	T	.02	.15	T	.05	.04
WAIAKEA SCO 88.2		14.45		.74	.54	.59	.81	.84	1.39	1.92	.37	1.42		.37	.38	.27	.20	.12	.43	.88	.05			.37	.27	.60	.08	.66	.08	1.02	.01	.01	.10

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.) Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Relative humidity averages-percent Standard of Time 150TH MERIDIAN 02	08	14	20	Number of days with precipitation Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and aver	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
HILO, HAWAII, WB AIRPORT	34	0.6	6.4	16	NE	11	87	78	66	79	0	4	15	8	1	0	28	49	7.1
HONOLULU, OAHU, WBFC	5	14.1	14.8	29	NE	16+	70	64	49	64	10	9	5	1	0	0	25	74	4.5
KAHULUI, MAUI, WB AIRPORT	4	14.0	14.5	29	NE	01	78	71	56	74	12	7	0	0	0	0	19	76	4.5
LIHUE, KAUAI, WB AIRPORT	5	13.2	13.6	25	E	17+	77	73	65	75	7	15	6	0	0	0	28	38	6.4

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
JULY
1970

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX																																
	MIN																																
KILAUEA POINT 1133	MAX	82	81	79	81	80	80	82	81	82	81	80	81	80	81	82	81	82	81	82	81	84	85	80	81	82	81	82	83	82	84	82	81.5
	MIN	74	74	72	73	68	74	72	73	70	72	65	71	69	71	70	74	69	74	70	74	71	74	70	70	72	74	71	75	73	74	72	71.8
LIHUE WB AP 1020.1	MAX	84	84	83	83	85	85	85	79	84	85	81	83	82	85	84	85	83	85	85	85	86	85	85	86	86	85	86	87	86	85	86	84.5
	MIN	75	75	75	75	74	73	75	72	72	76	72	74	72	76	76	74	73	76	76	77	74	73	73	73	74	75	76	77	76	75	75	74.5
MAKAHUENA POINT 940.1	MAX	84	85	83	84	83	86	83	85	82	84	81	92	82	83	86	85	82	84	83	83	83	85	86	86	84	83	83	85	85	85	84	84.2
	MIN	66	72	75	69	73	67	75	71	74	70	76	70	73	72	75	70	69	71	76	71	75	70	73	68	76	70	76	72	77	70	74	72.1
MANA 1026	MAX	89	90	88	88	89	89	89	90	89	88	88	89	89	88	88	87	90	89	90	90	89	90	90	87	89	88	90	87	89	89	89	88.8
	MIN	65	67	65	65	65	64	65	68	67	65	65	67	67	69	68	63	68	67	67	65	69	67	65	68	67	67	68	66	66	68	64	66.4
NIU RIDGE 1035	MAX	85	83	82	82	83	82	84	83	81	84	83	81	82	83	84	83	89	88	85	86	85	84	83	83	83	84	83	85	82	81	83	83.5
	MIN	63	62	62	61	62	61	63	61	60	63	62	60	61	63	63	62	64	63	62	63	64	64	62	61	61	62	62	64	63	63	62	62.2
WAIAMI LOWER 1054	MAX	81	80	80	79	80	80	80	80	79	79	80	79	80	79	81	81	81	82	81	81	82	83	83	83	82	82	83	83	84	83	83	81.1
	MIN	68	66	67	68	67	68	66	67	66	69	68	67	66	68	66	67	66	66	68	68	63	65	65	68	69	67	68	66	63	66	63	66.6
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	85	85	85	85		85	86	85	85	86		87	85	85	85	85	86	85		87	87	88	86	84	87	85	86	87	85	86	85	85.6
	MIN	70	69	70	70		68	69	70	69	71		69	70	69	69	69	70	70		69	70	70	70	70	70	70	69	70	67	70	68	69.5
HONOLULU WBFC 703	MAX	89	89	88	88	88	88	89	88	89	89	88	89	90	89	89	89	88	90	90	90	89	90	89	90	90	90	90	90	90	89	90	89.2
	MIN	76	75	75	75	76	74	75	74	75	77	75	76	72	73	76	76	75	75	77	77	77	75	75	77	74	75	78	75	72	76	72	75.2
HONOLULU SUBSTA 704	MAX	81	82	81	81	82	82	82	82	83	82	82	83	83	82	81	82	82	83	83	83	83	81	82	84	84	84	84	83	83	81	82	82.4
	MIN	74	72	72	72	74	73	73	72	75	74	73	73	70	73	74	72	72	72	75	75	74	72	72	74	72	72	74	72	73	72	74	72.9
KAHUKU 912	MAX	83	83				84	83	83	84	84			83	83	84	83	83			85	85	84	84	83			85	85	85	85	83	83.8
	MIN	72	74				71	70	69	71	72			71	71	73	74	72			72	73	72	69	71			72	75	74	71	72	71.9
KANEOHE MAUKA 781	MAX	81	81	79	81	82	82	81	80	82	83	80	80	81	81	82	82	84	83	84	83	84	83	80	80	82	81	83	83	83	83	81	81.8
	MIN	73	70	71	73	73	73	70	69	69	72	70	70	69	70	72	72	72	69	74	71	72	73	69	69	71	72	71	71	70	69	68	70.9
LUALUALEI 804	MAX	85	84	88	84	86	88	87	87	85	88	88	88	89	88	88	88	89	86	90	90	88	88	88	85	88	86	88	89	88	89	88	87.5
	MIN	73	75	75	73	75	72	72	74	74	75	74	76	73	70	74	75	74	74	78	73	73	72	70	72	73	74	72	72	73	73	73	73.4
MAKAPUU POINT 724	MAX	75	78	78	76	75	75	78	80	79	80	79	78	80	80	79	79	78	79	80	81	81	76	80	78	80	80	79	81	81	80	80	78.8
	MIN	60	64	69	64	65	63	67	70	66	67	69	70	71	69	67	73	70	67	69	70	73	67	69	73	70	69	70	69	72	69	69	68.4
OPAEULA 870	MAX	81	77	80	78	79	80	80	79	78	82	83	77	81	81	81	81	82	80	82	82	83	83	84	81	82	78	80	82	81	83	81	80.7
	MIN	67	66	66	66	68	66	66	66	65	66	66	67	65	66	65	66	66	66	62	62	65	65	66	67	67	64	64	65	64	64	64	65.4
PRI WAHIAWA 820.2	MAX	83	80	85	78	82	84	85	84	83	86	85	82	85	85	85	84	86	82	84	87	86	86	85	83	85	81	87	85	82	84	82	83.9
	MIN	67	66	67	67	68	66	65	67	66	67	68	67	67	66	65	66	66	66	67	67	66	66	67	68	66	65	66	67	64	64	65	66.3
WAIALUA 847	MAX	86	85	86	83	85	85	88	87	85	86	85	84	85	86	88	88	88	85	86	87	89	88	86	86	86	84	85	88	86	87	86	86.1
	MIN	67	64	64	69	69	68	65	68	63	66	66	69	67	66	65	64	68	68	69	67	64	66	69	67	68	67	68	67	63	66	63	66.5
WAIKIKI 717.2	MAX	85	85	85	84	85	85	85	86	86	86	86	86	86	86	86	86	85	88	87	86	87	89	87	86	87	86	86	86	86	86	88	86.1
	MIN	74	73	72	73	73	73	73	71	72	74	72	73	73	71	72	74	72	71	75	74	73	71	71	73	73	74	74	71	71	72	73	72.6
WAIMANALO EXP FARM	MAX	84	84	84	83	84	83	84	84	85	84	83	83	83	82	85	85	85	85	85	85	86	85	85	82	84	84	85	85	84	86	85	84.2
	MIN	72	73	69	71	72	71	74	70	71	73	69	73	70	72	74	74	71	70	73	74	74	73	72	74	74	73	74	70	71	71	72	72.1
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	78	83	83	82	82	82	83	82	82	83	83	82	82	82	85	83	83	83	83	85	84	85	82	81	83	84	84	83	82	84	83	82.8
	MIN	72	70	69	72	73	70	72	71	70	70	70	75	70	70	72	70	70	70	75	70	72	71	69	69	70	74	70	71	73	70	70	71.0
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	70	76	72	74		76	78	74	78	77	76		73	76	76	76	76	78		79	78	79	80	76	78		81	78	77	79	80	76.7
	MIN	66	67	67	66		65	65	63	63	63	66		64	67	63	66	65	65		64	67	66	65	64	67		62	67	66	65	66	65.2
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	64	67	68	68	69	66	62	58	60	58	62	62	65	64	63	64	62	63	64	68	67	67	62	64	65	62	65	61	66	64	64	64.0
	MIN	47	43	43	47	49	40	42	42	42	45	48	49	43	42	44	46	43	45	52	52	55	44	50	46	44	48	45	49	44	48	43	45.8
HALEAKALA SUMMIT 338.4	MAX	58	61				59	53	52	52	51			54	56	58	55	56			53	54	54	54	56			56	53	53	54	54	54.8
	MIN	43	40				41	38	37	36	38			41	38	42	39	41			39	40	44	39	37			37	42	40	38	39	39.5
HANA AIRPORT 355	MAX	82	83	80	82	83	82	81	82	85	83	82	81	82	83	83	84		80	84	85	85	84	81	83	83	84	84	84	84	85	85	83.0
	MIN	70	69	70	69	69	69	67	70	70	70	69	69	70	77	69	71		69	71	69	68	68	70	70	70	73	70	69	68	69	68	69.7
KAANAPALI AIRPORT	MAX	83		82				84	85		88												85	86	84				86				
	MIN	70		70					70		68												68	70	69				71				
KAHULUI WB AP 398	MAX	86	85	87	86	87	86	87	88	88	88	88	87	89	91	88	89	87	89	90	88	89	87	86	88	92	88	88	86	88	88	89	87.8
	MIN	73	70	72	71	69	71	72	66	67	73	70	71	72	67	72	74	73	73	66	71	71	71	71	73	67	74	71	73	70	72	72	70.9
KAILUA 446	MAX	73	80	74	77	77	78	75	76	78	76	76	76	77	77	77	80	80	80	80	80	80	80	77	74	78	78	79	77	75	78	78	77.5
	MIN	68	68	66	67	66	67	65	67	66	66	66	67	67	68	68	68	67	68	68	68	68	67	67	67	67	67	69	68	67	67	66	67.1
KEAWAKAPU BEACH 260.2	MAX	87	90	90	92	91	92	89	85	89	87	88	87	88	86	91	91	92	89	89	89	88	85	86	91	88	88	88	91	93	88	89	88.9
	MIN	69	65	64	65	65	64	66	65	66	69	68	65	67	67	65	65	65	66	66	64	66	65	64	65	65	67	64	68	63	64	65	65.5
KULA SANATORIUM 267	MAX	76	75	73	76	71	74	72	75	76	76	75	72	72	73	72	74	73	74	74	74	73	74	75	74	72	75	75	74	75	75	73	73.9
	MIN	61	58	57	56	55	56	57	58	59	59	60	61	58	59	58	58	58	58	57	58	58	57	58	57	56	56	57	59	56	57	57	57.7

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	86	88	86	87	87	86	87	88	86	87	88	88	87	87	89	87	87	86	87	87	87	86	86	86	84	86	87	87	87	86	86	86.7
	MIN	69	70	68	69	70	70	68	69	68	71	72	69	71	70	68	68	68	68	68	68	69	69	69	68	69	69	71	69	67	69	68	69.0
WAILUKU 386	MAX	80	82	79				81	80	83	82			83	84	83	83	83			83	83	83	82	80			85	83	83	83	83	82.3
	MIN	72	70	70				69	72	73	73			71	72	73	73	72			71	73	72	70	72			72	72	72	72	72	71.7
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	82	79	81	77	79	80	81	83	82	79	81	82	83	83	82	83	82	75	79	80	84	84	84	82	84	84	83	83	83	84	85	81.7
	MIN	66	67	67	65	65	64	65	67	67	65	65	66	68	67	67	67	64	68	66	68	65	65	67	67	66	69	67	68	65	67	68	66.4
HAWAII VOLCNS NP HO 54	MAX	71	65	66	68	69	63	68	69	68	72	70	70	65	66	65	65	68	73	72	74	72	71	68	69	72	71	73	70	71	69	70	69.1
	MIN	58	57	55	55	56	54	54	57	55	55	53	55	54	54	54	56	53	57	55	54	55	55	57	55	55	55	55	55	55	54	54	55.1
HILO WB AIRPORT 87	MAX	78	81	82	80	83	82	83	82	81	82	82	82	82	82	83	82	81	83	84	84	84	83	83	84	84	83	83	84	82	84	83	82.5
	MIN	68	67	66	66	66	67	68	68	66	65	62	65	64	64	64	67	63	67	65	66	64	68	67	67	68	65	65	68	63	65	66	65.8
KAINALIU 73.2	MAX	78	76	75	77	75	76	76	78	80	81	78	76	78	78	79	77	78	79	80	81	82	80	80	77	78	79	80	81	79	79	77	78.3
	MIN	65	64	65	63	63	65	63	63	63	66	62	65	63	62	64	63	64	64	64	63	63	64	64	64	63	64	63	68	62	64	63	63.7
KAMUELA 192.2	MAX	70	70	71	67	67	70	71	72	72	73	71	73	74	77	72	70	72	70	69	71	72	72	72	72	73	75	73	74	74	72	74	71.8
	MIN	57	58	58	57	58	60	60	60	58	60	55	58	56	60	59	60	58	60	58	60	59	58	60	59	59	60	60	59	59	57	59	58.7
KAMUELA AIRPORT 191	MAX	73	73	75	73	70	73	72	75	75	74	74	75	74	74	75	74	74	73	73	74	70	74	74	70	75	75	76	75	75	76	74	73.8
	MIN	50	51	53	49	49	54	56	50	59	57	52	50	52	52	32	38	52	55	59	57	50	43	51	62	53	60	54	52	52	47	47	51.5
KEAAU 92	MAX	83	79	80	82	80	82	81	83	81	84	82	84	83	82	83	81	81	81	82	84	83	84	82	82	83	83	81	81	81	81	83	82.0
	MIN	66	68	67	67	66	66	66	67	67	67	63	65	65	66	65	65	64	64	67	67	66	66	66	67	68	68	67	67	65	65	66	66.1
KEALAKEKUA 26.2	MAX	78	77	75	76	77	77	77	78	80	81	78	75	78	80	79	74	77	78	81	81	81	80	77	77	78	79	78	81	80	78	78	78.2
	MIN	66	64	66	64	64	66	64	65	64	67	64	67	66	64	65	64	65	64	64	64	64	64	65	65	63	63	64	66	63	65	64	64.6
KOHALA MISSION 175.1	MAX	79	75	78	77	72	78	78	80	80	80	79	81	80	82	80	80	79	78	78	81	81	81	80	80	81	81	80	80	79	80	81	79.3
	MIN	69	67	67	67	67	68	66	67	67	68	68	68	68	69	67	67	67	68	68	71	68	66	68	68	68	69	69	69	67	67	66	67.7
KONA (KAILUA) 68.3	MAX												88	83	86	86	82	85	86		86	87	86	84	85	84		87	86	85	85	84	
	MIN												68	69	68	72	71	71	78		72	72	70	71	69	79		72	72	68	69	70	
KULANI CAMP 79	MAX	65	65	60	61	61	61	62	62	64	65	65	65	66	71	68	64	64	67	67	70	68	67	64	64	66	65	67	63	65	63	66	64.9
	MIN	41	55	51	53	52	53	52	53	42	47	45	46	43	48	47	48	43	60	35	48	47	40	48	49	53	46	46	39	49	57	35	47.5
MAUNA LOA SLOPE 08S	MAX	60	58	56	58	56	55	51	50	48	49	62	55	62	59	58	55	53	49	51	55	58	59	60	54	49	51	55	54	59	58	57	55.3
	MIN	40	39	38	38	36	34	34	35	31	36	37	40	42	42	37	37	33	31	33	32	40	41	42	38	35	30	35	36	43	43	39	37.0
MOUNTAIN VIEW 91	MAX	78	72	74	76	76	76	76	77	76	80	77	77	77	74	75	74	75	81	81	81	80	81	77	79	81	81	81	77	78	79	80	77.6
	MIN	62	64	63	62	62	62	62	64	61	63	57	57	57	61	60	62	59	59	59	59	61	62	63	64	61	61	61	64	59	62	62	61.1
NAALEHU 14	MAX	81	80	80	80	80	80	80	82	82	84	84	83	83	83	79	77	82	82	82	85	84	84	83	77	77	83	83	82	83	84	83	81.7
	MIN	69	67	67	67	67	67	67	68	68	69	69	66	66	68	67	68	65	65	65	68	65	66	68	69	69	69	69	69	64	69	67	67.3
OOKALA 223	MAX	80	80	80	79	77	79	79	81	80	80	80	81	80	84	80	80	80	79	79	82	81	81	80	80	80	83	81	80	81	81	82	80.3
	MIN	68	67	67	67	67	65	66	67	66	67	66	66	68	68	67	69	67	66	70	70	68	66	67	67	68	68	68	68	66	65	69	67.2
OPIHIHALE 2 24.1	MAX	75	74	78	77	75	76	78	80	78	81	74	76	77	81	73	81	76	84	82	79	80	78	77	80	78	83	82	77	78	77	79	78.2
	MIN	63	65	61	61	63	61	61	61	60	63	63	64	60	61	60	60	62	64	63	62	62	63	64	62	61	62	64	62	63	64	61	62.1
PAHALA 21	MAX	80	80	77					80	80	84			83	79	79	80	80			86	83	84	80	76			82	81	82	82	83	
	MIN	65	67	65					62	63	66			62	64	63	63	63			62	63	64	64	64			63	64	61	61	62	
PUAKO 95.1	MAX	87	89	87	88	88	88	88	88	88	87	88	84	87	88	90	88	87	86	87	88	89	89	89	84	86	88	87	88	89	89	89	87.7
	MIN	73	74	70	74	73	74	72	73	71	71	69	69	71	70	74	74	72	75	71	73	73	74	74	72	70	71	68	74	73	72	74	72.2
UPOLU POINT USCG 159.2	MAX	83	78	81	83	81	82	81	82	84	84	82	84	83	84	85	83	82	82	82	83	84	82	83	82	83	86	84	81	85	83	82	82.7
	MIN	70	70	71	69	69	70	69	69	71	69	69	69	70	71	70	68	70	72	72	73	70	70	70	70	71	70	71	73	72	70	71	70.3

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE WB AP 1020.1	EVAP	*	.24	.35	.40	.37	.38	.40	.43	.20	.35	.34	.22	.33	.23	.38	.32	.45	.26	.36	.41	.40	.40	.40	.27	.41	.38	.38	.43	.29	.28	.40	10.46
	WIND	207	204	216	258	243	230	239	188	160	202	209	205	170	158	168	193	190	192	182	175	125	143	181	206	202	226	193	184	175	166	166	5956
	MAX	86	84	85	83	82	86	87	86	79	87	86	78	86	84	89	86	86	86	88	88	89	90	88	85	90	88	89	89	89	89	88	86.3
	MIN	68	66	66	67	67	66	67	67	67	67	68	68	68	68	68	67	67	67	67	68	68	68	66	67	67	68	68	69	66	67	67	67.3
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.30	.40	.26	.45	.28	.38	.30	.28	.30	.30	.25	.30	.40	.30	.30	.30	.38	.32	.27	-	.20	.30	.19	.25	.27	.30	.30	.30	.25	.30	9.338
	WIND	38	32	46	38	54	25	29	25	28	34	20	16	27	19	23	28	28	28	27	22	24	20	31	19	22	38	26	29	27	27	35	885
	MAX	89	85	92	90	91	91	92	93	92	94	94	90	94	93	95	91	93	90	94	91	-	90	91	86	90	92	94	91	92	91	89	91.3
	MIN	68	65	67	68	67	66	67	68	67	69	69	68	69	69	68	68	68	69	70	67	-	70	68	68	69	68	68	70	65	65	68	67.9

See Reference Notes Following Station Index

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAH[illegible]A .1.4	A 0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BAYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST KAUAI 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1	0465	02	KAWAIHAU	2	22 06	159 22	350					LIHUE PLANTATION
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALA[illegible]A 1110	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	A 1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WB AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	U S WEATHER BUREAU
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M[illegible]M 1001	6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPP CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEMU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A 8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
AIEA FIELD 625 761	A 0111	03	EWA	3	21 25	157 57	455		7A			WAIAHOLE WTR CO LTD
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A 0360	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 77192	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WBFC 703	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	U S WEATHER BUREAU
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	ESSA-WEATHER BUREAU
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3058	01	OAHU	1	21 19	157 41	1380				C	THE OCEANIC INSTITUTE
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.7	A 3741	05	WAGALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KO LAU DAM 833	4706	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A 5650	04	WAIANAE	4	21 29	158 08	1500					U S NAVY
LULUKU	5659	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LOM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			HAROLD ROBERTS
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240				C	CLAKENCE LEE
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS. JOHN M.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PR WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			ALFRED J. PRATT
WAIANAE MAUKA 803	A 9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836	A 9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9513	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.5	3046	01	MOLOKAI	1	21 04	156 52	60				C	W.J. CARSTEN
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KAANEHELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560				C	MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	70		8A			H S P A
MAUNALOA 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	DOLE COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUUOHOKU RANCH 547.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF MOLOKAI												
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE CONPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370					ST. DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430					DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LKHEED SP & MSLE DIV
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WB AP 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	U S WEATHER BUREAU
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO
NAKALELE -FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 36	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION C
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION C
WAILUKU 386	9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		VAR			KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1520		VAR		C	HILO COUNTRY CLUB
HILO WB AIRPORT 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	U S WEATHER BUREAU
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HOLUALOA MAKAI 69.16	1570	04	HAWAII	4	19 38	155 58	1040				C	SID WEINRICH
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		VAR			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1340		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAHUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAHUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYNAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA (KAILUA) 68.3	4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	STANDARD OIL CO OF CAL
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300				C	MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103		8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII													
MAULA 18	A	6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91		6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A	6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6		6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A	6806	01	N KOHALA	1	20 1A	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223		7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1		7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A	7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217		7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAUILO 221		7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21		7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65		7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAD 37	A	7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO, INC.
PAPAIKOU 144.1		7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1		7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144		8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A	8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POHAKULOA 107	A	8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A	8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. RAPP
PUU KIHE 120	A	8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A	8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A	8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU MALI 113	A	8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUMAU 167	A	8548	06	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82		8550	02	S HILO	2	19 44	155 23	6340		6A		C	OON WINTERS
PUU WAWAA 94.1	A	8555	05	N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A	8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A	8675	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UMIKOA 118		8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2		9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONOULA 174.6		9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH
NEW STATIONS													
ISLAND OF HAWAII													
HOLUALOA MAKAI 69.16		1570	04	HAWAII	4	19 38	155 58	1040				C	SIO WEINRICH

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the Environmental Science Services Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any Weather Bureau Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII"

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES. Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

• Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table; and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

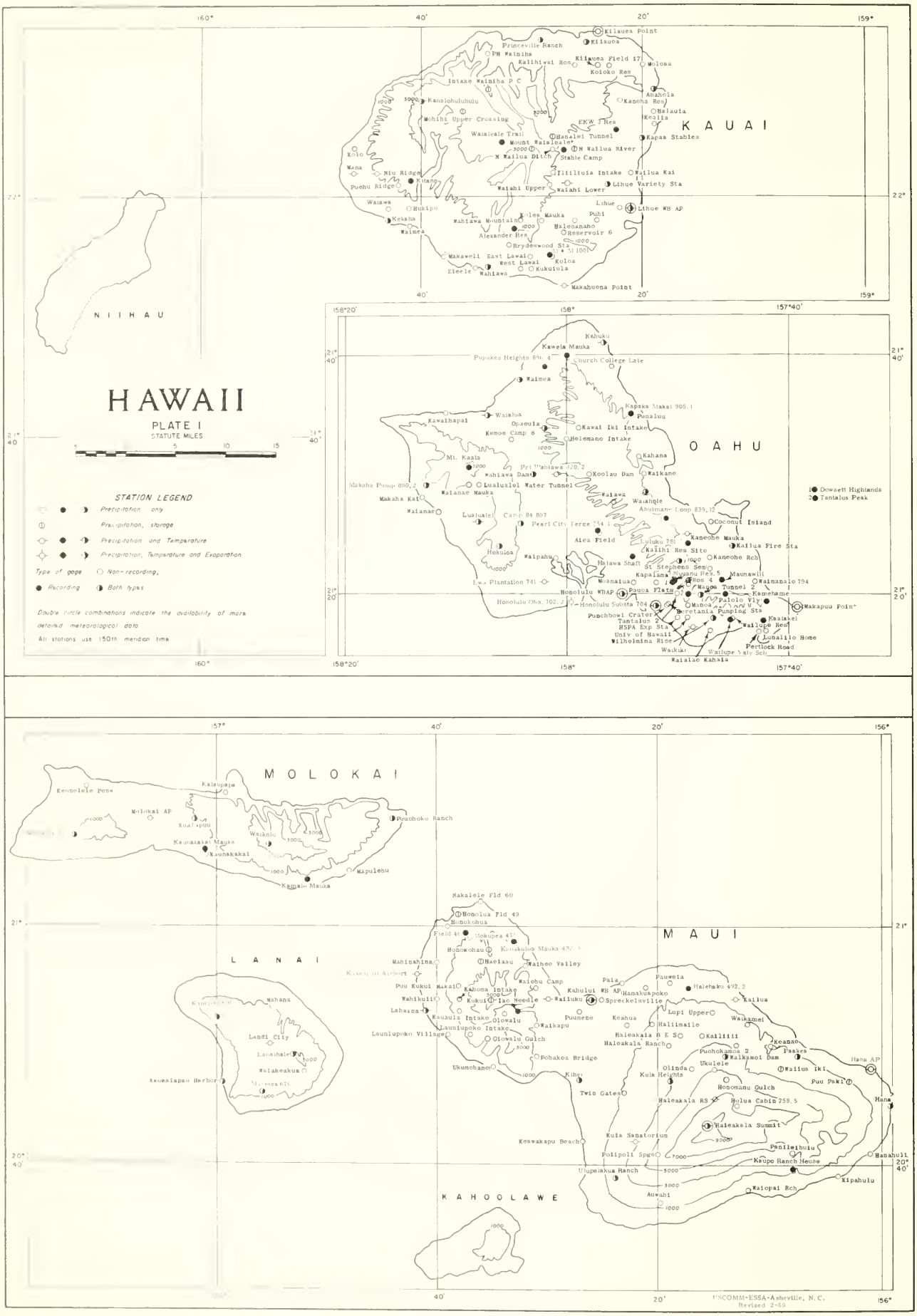
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

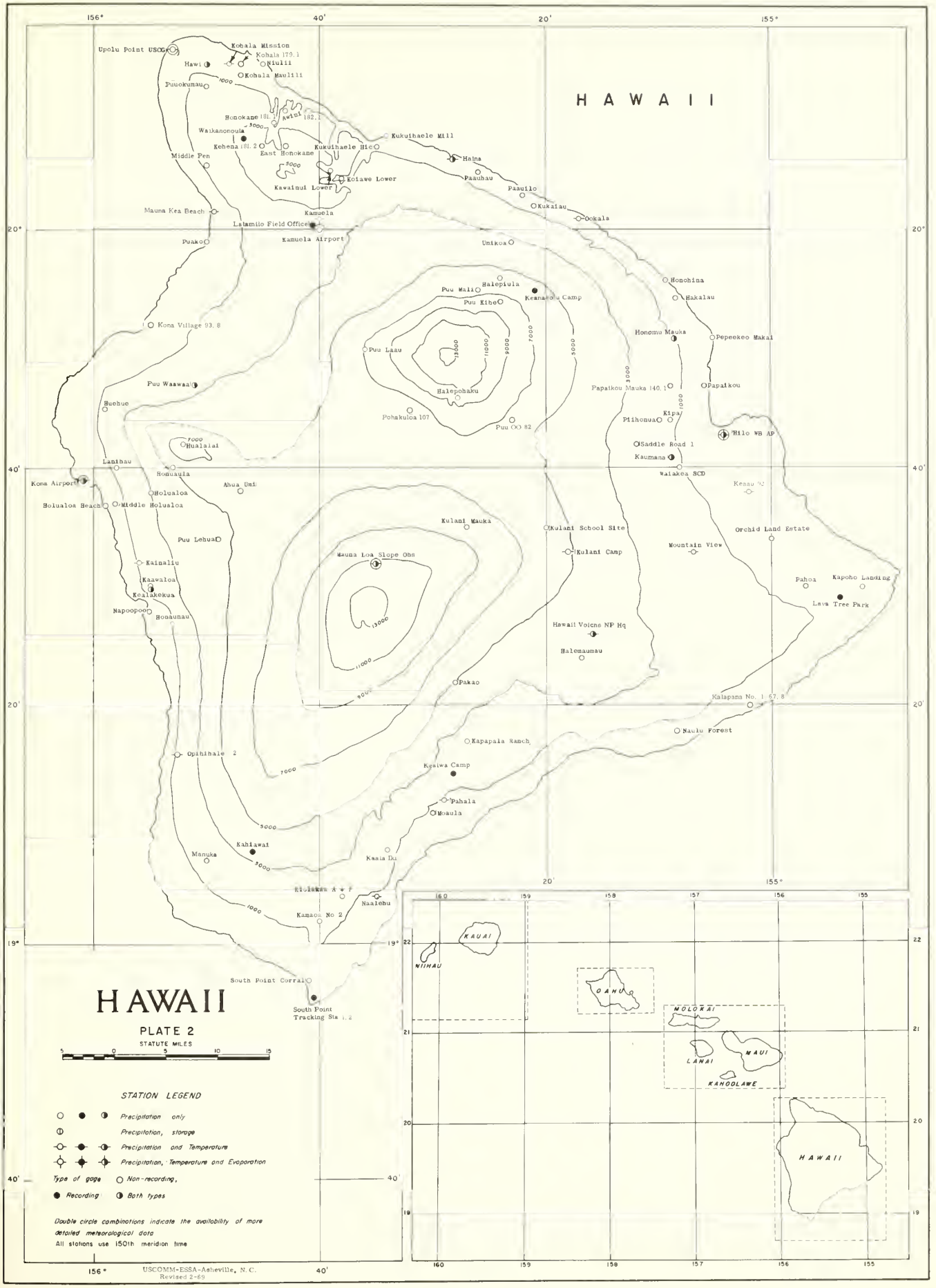
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-NOAA-ASHEVILLE- 11/2/70-890


HAWAII
PLATE I
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
1 Dowsett Highlands
2 Tantalus Peak
USCOMM-ESSA-Asheville, N.C.
Revised 2-69



HAWAII

PLATE 2

STATUTE MILES

5 0 5 10 15

STATION LEGEND

- ○ ● ◑ Precipitation only
- ◍ Precipitation, storage
- ○ ● ◑ Precipitation and Temperature
- ☼ ✱ ✣ Precipitation, Temperature and Evaporation

Type of gage ○ Non-recording, ● Recording ◑ Both types

Double circle combinations indicate the availability of more detailed meteorological data

All stations use 150th meridian time

USCOMM-ESSA-Asheville, N.C.
Revised 2-69

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
AUGUST 1970
Volume 66 No. 8

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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days .10 or More	.50 or More	1.00 or More
* * *																							
ISLAND OF KAUAI																							
ANAHOLA 1114 A														1.83	- 1.06	.40	13	.0	0			0	0
KANALOHULUHULU 1075	73.7	56.2	65.0		78	30+	46	9		0	0	0	0	1.13		.24	13	.0	0		4	0	0
KAPAA STABLES 1104 A														2.84		.54	27	.0	0				0
KILAUEA FIELD 17 1135 A														4.09	- 3.60	.89	27	.0	0			1	0
KILAUEA POINT 1133	81.7	72.9	77.3		85	9	69	30		0	0	0	0	2.56		.51	26	.0	0		10	1	0
KOLOA 936 A														3.07	- 3.45			.0	0			0	0
LIHUE WSO 1020.1 //R	85.8	75.7	80.8	2.4	87	31+	73	13+		0	0	0	0	1.33	- 1.13	.26	24	.0	0		3	0	0
MANA 1026	88.9	67.6	78.3	.0	91	31	64	6		15	0	0	0	.01	- .98	.01	3	.0	0		0	0	0
N WAILUA DITCH 1051 A														12.34		2.10	27	.0	0				
PH WAINIHA 1115														4.99	- 5.66	1.51	27	.0	0		11	2	1
PUEHU RIDGE 1040														.10		.10	3	.0	0		1	0	0
WAHIAWA 930 A														.67	- 1.85	.16	13	.0	0			0	0
WAIAHI LOWER 1054	82.0	68.0	75.0		86	29	64	1		0	0	0	0	8.15		1.24	27	.0	0		20	3	1
WAIMEA 947														.00	- 1.04	.00		.0	0		0	0	0
ISLAND			75.3											3.08				.0					
* * *																							
ISLAND OF OAHU																							
HONOLULU OBSERV 702.2														.03		.02	30	.0	0		0	0	0
HONOLULU WBFC 703 R	90.3	77.1	83.8	4.4	92	28+	74	2		29	0	0	0	.21	- .68	.08	29	.0	0		0	0	0
KAHUKU 912 A	M	M	M		87	31	70	24		0	0	0	0	1.80	- .86			.0	0				0
KANEOHE MAUKA 781	82.9	71.9	77.4	.3	85	30+	69	24+		0	0	0	0	2.80	- 1.49	.34	25	.0	0		12	0	0
KOOLAU DAM 833														10.14	1.61	1.20	17	.0	0				1
LUALUALEI 804	88.2	75.1	81.7		91	24	72	13+		5	0	0	0	.03				.0	0		0	0	0
MAKAPUU POINT 724	79.6	70.1	74.9		82	31	67	18+		0	0	0	0	2.53	1.51	1.03	30	.0	0		5	2	1
NUUANU RES 4 783														7.64	- 2.95	1.36	30	.0	0		14	5	3
OPAEULA 870 A	81.5	67.4	74.5	1.5	89	30	64	2+		0	0	0	0	1.95	- 1.96	.41	17	.0	0		8	0	0
PALOLO VALLEY 718														8.76	- 2.98	2.16	26	.0	0		18	7	1
PRI WAHIAWA 820.2 A	85.8	67.4	76.6		90	31+	63	17		2	0	0	0	.45				.0	0			0	0
PUNALUU 884 A														3.44				.0	0				0
WAHIAWA DAM 863 A														.90				.0	0			0	0
WAIAHOLE 837 A														6.72	- 5.11	1.20	27	.0	0		11	6	1
WAIALUA 847 A	86.7	67.7	77.2	.5	90	21	64	10+		1	0	0	0	.43	- .95	.10	13	.0	0		1	0	0
WAIKIKI 717.2	88.6	73.9	81.3		90	29+	72	12+		6	0	0	0	.51		.36	30	.0	0		1	0	0
WAIMANALO EXP FARM	85.4	72.5	79.0		87	30	70	31+		0	0	0	0	1.26		.44	2	.0	0		4	0	0
WAIPAHU 750 A														.30	- .93	.11	13	.0	0		1	0	0
ISLAND			78.5											2.77				.0					
* * *																							
ISLAND OF MOLOKAI																							
KUALAPUU 534 A														.68	- .54			.0	0			0	0
MAPULEHU 542														2.57	- .33	.23	22	.0	0		14	0	0
MAUNALOA 511 A														.90	- .30			.0	0				0
MOLOKAI AP 524	83.7	71.7	77.7		85	29+	70	21+		0	0	0	0	.25		.16	16	.0	0		1	0	0
ISLAND			77.7											1.10				.0					
* * *																							
ISLAND OF LANAI																							
LANAI CITY 672 A	79.4	65.8	72.6	.7	87	8+	58	1		0	0	0	0	2.09	.31			.0	0				
ISLAND			72.6											2.09				.0					
* * *																							
ISLAND OF MAUI																							
HALEAKALA 8 E S 434 A														2.18	- 2.50	.60	17	.0	0		7	1	0
HALEAKALA RS 338	65.5	46.3	55.9		71	15+	39	22		0	0	0	0	2.42		2.05	26	.0	0		2	1	1
HANA AIRPORT 355	85.3M	70.8M	78.1M		87	23+	68	31+		0	0	0	0	3.57		.64	24	.0	0		14	1	0
HONOKOHUA 493 A														2.66	.08			.0	0				0
KAANAPALI AIRPORT	M	M	M							0	0	0	0					.0	0				
KAHULUI WSO 398 R	88.6	71.9	80.3	1.3	92	29	64	10		6	0	0	0	.23	- .12	.04	28+	.0	0		0	0	0
KAILUA 446	78.9	68.1	73.5	.3	87	31	65	1		0	0	0	0	11.25	- .06	1.60	26	.0	0		23	7	3
KEANAE 346 A														22.50	.75			.0	0				
KIPAHULU 258														6.22	- 2.24	.81	25	.0	0		16	6	0
KULA SANATORIUM 267	75.5	59.5	67.5	.8	80	31	56	10		0	0	0	0	.55	- 1.74	.24	2	.0	0		1	0	0
LAHAINA 361	88.5	69.9	79.2		92	18	67	5		3	0	0	0	.21	- .21	.21	30	.0	0		1	0	0
PAIA 406														1.39	- .53	.24	29	.0	0		5	0	0
WAILUKU 386	M	M	M		85	19+	70	13		0	0	0	0	.40	- .46			.0	0			0	0
ISLAND			72.4											4.47				.0					
* * *																							
ISLAND OF HAWAII																							
HAINA 214	82.2	67.4	74.8	.3	85	12+	66	13+		0	0	0	0	13.69	9.05	6.15	26	.0	0		16	6	3
HAWAII VOLCNS NP HQ 54	70.5M	55.6M	63.1M	- .5	77	14	44	27		0	0	0	0	16.62	9.03	11.02	26	.0	0				3
HILO WSO 87 R	82.4	67.4	74.9	- .9	85	29	64	31+		0	0	0	0	20.53	9.08	8.99	25	.0	0		24	7	4
HUEHUE 92.1 A														2.02	- .70	.57	27	.0	0				0
KAINALIU 73.2	79.4	65.1	72.3		82	27	63	14+		0	0	0	0	5.67	- 2.02	.92	29	.0	0		16	3	0

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 87

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature									No. of Days				Precipitation							No. of Days		
										Max.		Min.						Snow, Sleet					
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	80° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191	74.5	M	M		80	8	50	15		0	0	0	0	1.91		1.19	26	.0	0		2	1	1
KEAAU 92	81.2	67.5	74.4	- .7	84	30	65	10+		0	0	0	0	23.58	11.83	11.64	26	.0	0		25	9	4
KEALAKEKUA 26.2	79.2	65.1	72.2		82	27	63	21+		0	0	0	0	4.22		1.21	25	.0	0		9	1	1
KONA (KAILUA) 68.3	85.6M	72.7M	79.2M		87	31+	69	3		0	0	0	0	3.32				.0	0				
KUKUIHAELE MIC 199														14.54	8.57	3.56	26	.0	0		18	8	5
KULANI CAMP 79	65.7	51.2	58.5		77	19	46	12+		0	0	0	0	17.65		12.43	26	.0	0		12	3	3
PAHALA 21	M	M	M		87	12	61	10		0	0	0	0	7.68	4.62	5.72	26	.0	0			2	2
POHAKULOA 107 A														1.30				.0	0				
PUAKO 95.1 A	88.4	72.8	80.6		92	19	66	27		7	0	0	0	.65		.62	26	.0	0		1	1	0
PUU WAAWAA 94.1 A														1.70	- .43	.66	26	.0	0			1	0
UMIKOA 118														12.42	7.36	10.33	26	.0	0		5	2	1
WAIAKEA SCD 88.2														38.49		19.20	26	.0	0		25	12	9
ISLAND			72.2											10.94				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 15TH AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 32° ON THE 9TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 43.03 AT HONOMU MAUKA 138, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 10 STATIONS

GREATEST ONE-DAY PRECIPITATION: 19.20 ON THE 26TH AT WAIAKEA SCD 88.2, HAWAII

See Reference Notes Following Station Index

HAWAII - AUGUST 1970

SPECIAL WEATHER SUMMARY

The highlight of the month's weather in Hawaii was the near approach of Tropical Storm MAGGIE, which began its career off the coast of southern Mexico and then drifted westward toward the Islands. MAGGIE appears to have reached its maximum strength with winds of approximately 65 m.p.h. when still several hundred miles southeast of Hawaii Island. At its closest, less than 100 miles south of South Point, the southernmost spot in the Hawaiian Islands (and in the United States), MAGGIE had weakened to a tropical depression, with peak winds of only about 35 m.p.h. near its center. Nevertheless, it was still capable of causing torrential rains and high seas.

Hawaii Island bore the brunt of the storm. Owing apparently to the effects of MAGGIE's circulation in erasing the trade wind inversion and in strengthening the trade winds, rainfall over the lower windward (eastern and northeastern) flanks of Mauna Loa and Mauna Kea was unusually heavy, with a number of stations on the slopes above the Hilo coast reporting 24-hour amounts in excess of 18 inches and storm totals of 25 inches or more. Despite these accumulations, intensities seldom exceeded an inch an hour, so that only minor and local flooding, landslides, and crop damage occurred. Surf estimated to be up to 25 feet in height pounded the Kapoho Beach area on the easternmost tip of Hawaii Island, but without doing significant damage.

Otherwise, it was a dry month for most of the State. All of Kauai and almost all of Oahu, Molokai, and Maui had below average rainfall for the month, with leeward (western and southern) areas reporting many gages with well under half their monthly means.

On Hawaii Island, a number of stations with long periods of record exceeded their previous greatest 24-hour total for August. A selected list of these is given below.

Stations Whose Previous Greatest 24-Hour Rainfall Totals were Exceeded in August 1970

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous August 24-Hour Extreme	August 1970
HAWAII ISLAND			
Hakalau	65	8.29 inches	10.15 inches
Hawaii Volcanoes NP Hq.	57	9.05	11.02
Hilo WSO	27	9.38	9.65
Honohina	65	7.78	13.93
Honomu Mauka	59	12.33	18.50
Keaau	65	8.10	11.64
Mountain View	65	11.14	15.60
Ookala	65	8.50	10.50
Pahoa	65	7.28	9.35
Papaikou	65	8.13	11.30
Papaikou Mauka	44	12.65	14.07
Pepeekeo Makai	65	6.55	8.54
Umikoa	49	9.30	10.33

Saul Price
Regional Climatologist for the Pacific Region
National Weather Service
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
AUGUST 1970

Day of Month

Station		Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																	
ANAHOLA 11.4	A	1.83	*	*	.05		.01	.06	.05	*	*	.16	.02	.11	.40	.10	*	*	.21					*	*	.10	.23	.07	.15		*	*	.11
BARBERS POINT STA 994	A	1.96	*	*	.08	.03	.03	.15	.19	*	*	.11	.02	.01	.14	.10	*	*	.20	.01	.03	.01	.01	*	*	.09	.15	.01	.31	.10	*	*	.18
EAST LAWAI 934	A	3.11	*	*	.19	.06	.02	.06	.09	*	*	.22		.02	.32	.13	*	*	.28	.08	.01		T	*	*	.28	.29	.11	.47	.03	*	*	.45
ELEELE 927	A	.28	*	*	.01			.05	.02						.03	.02	*	*	.03	T				*	*	.03	T	.01	.04	T	*	*	.04
HALEWAI 1 110	A	2.39	*	*	.11		.06	.03	.14	*	*	.15	.02	.10	.32	.13	*	*	.45	.03				*	*	.09	.30	.12	.21		*	*	.13
HALENANAHO 1006	A	5.82	*	*	.43	.03	.21	.23	.28	*	*	.38	.04	.09	.36	.49	*	*	.38	.06	.04	.07	.06	*	*	.45	.89	.12	.93	.27	*	*	.21
HOKIPI 945		.00																															
ILILIAULA INTAKE 1050	A	12.26	*	*	.32	.04	.34	.39	.53	*	*	1.02	.16	.04	.61	.95	*	*	.94	.26	.26	.08	.36	*	*	.43	1.05	.75	1.75	.65	*	*	1.33
INTAKE WAIMEA PC 1086	A	5.68	*	*	*	*	*	.10	*	*	*	*	*	*	*	1.85	*	*	1.38	*	*	*	*	*	*	.10	*	*	2.10	*	*	*	.15
KALIHIWAI RES 1131	A	5.67	*	*	.20	.04	.04	.06	.07	*	*	.36	.03	.12	.48	.43	*	*	.55	.06	.06	.03	.04	*	*	.46	.46	.35	1.19	.11	*	*	.53
KAHALIHULIHULI 1075		1.13					.02	.05	.21			.06		.04	.24	.07		.08	.13									.18			.02	.03
KAHEMA RESERVOIR 1092	A	4.88	*	*	.40		.06	.05	.26	*	*	.33	.03		.45	.40	*	*	.35	.03		.07		*	*	.30	.67	.40	.63	.05	*	*	.40
KAPAA STABLES 1104	A	2.84					.08	.03	.14	*	*	.25	.02	.09	.17	.38	*	*	.50	.12	.06	.10		*	*	.08	.05	.07	.54	.01	*	*	.15
KEALIA 1112	A	2.33					.05	.02	.16	*	*	.30	.03	.09	.15	.27	*	*	.37	.11	.03			*	*	.14	.10	.13	.23		*	*	.15
KEKAHA 944		.08			.07										.01																		
KILAUEA 1134	A	3.54	*	*	.13	.05	.04	.02	.06	*	*	.47	.05	.25	.20	.21	*	*	.35	.11	.02		.01	*	*	.28	.23	.25	.60	.01	*	*	.20
KILAUEA FIELD 17 1135	A	4.09	*	*	.04	.08	.03	.06	.02	*	*	.46	.10	.19	.27	.40	*	*	.44	.07	.05	.03	.04	*	*	.12	.20	.24	.89	.02	*	*	.34
KILAUEA POINT 1133		2.54			.01	.04	.01		.03		.15	.10	.34	.25	.12	.03		.20	.02	.02		.10	.08			.03	.25	.51	.01		.04		.22
KOLO 933		.00																															
KOLOA 936	A	3.07	*	*	.32	.12	.13	.02	.07	*	*	.15			.38	.33	*	*	.40				.05	*	*	.19	.23	.10	.25	.12	*	*	.21
KOLOA MAUKA 994	A	6.54	*	*	.31	.08	.26	.25	.25	*	*	.32	.16	.06	.36	.31	*	*	.50	.05	.04	.09	.04	*	*	.44	.82	.08	1.61	.06	*	*	.65
KOLOKO RES 1137	A	4.58	*	*	.05	.04	.01	.15	.03	*	*	.26	.02	.20	.22	.35	*	*	.50	.05	.03	.06	.25	*	*	.25	.69	.24	1.06		*	*	.12
KUKUIULA 934	A	1.89	*	*	.05	.01	.13	.06	.09	*	*	.08			.40	.15	*	*	.32	.01		.01		*	*	.12	.14	.05	.13	.08	*	*	.06
LIHUE AIRPORT STA		4.52	.02	*	.08	.12	.13	.12	.21	.38	.02	.02	.07	.17	.31	.29	.03	.08	.32	.03	.02	.26	.01	*	.22	.01	.29	.16	.90	.04	*	.12	.09
LIHUE 1020	A	2.17	*	*	.31	.02	.03	.10	.03	*	*	.05	.03	.04	.18	.12	*	*	.32	.01	.04			*	*	.20	.27	.04	.30	.01	*	*	.07
LIHUE WSO 1020.1	/ P	1.33	.08	.02	.01	T	.04	.08	.04	T	T		.03	.08	.08	.05	T	.16	.04	.02		T	T	.05	T	.26	.03	.09	T	T	.04	T	.13
MAKAHUENA POINT 940.1		1.07					.04	.12	.04	.01					.23	.13			.04						.01	.10	.04	.04					.27
MANAWELI 965	A	.04						.03						.01																			
MANA 1026		.01			.01																												
MOHIHI UPR CROSS 1083	A	1.98					.10	.21	.21			.08		.16	.25	.08		.08	.25							.08		.08	.16	.08			.16
MOLOAA 1145	A	1.70						.10	.03	*	*	.10		.11	.12	.16	*	*	.34	.05				*	*	.04	.27	.10	.18		*	*	.10
MOUNT WAIALEALE 1047		30.74	.16	.94	.47	.28	.39	.94	.67	.35	.39	.24	.08	.79	1.81	.47	.32	1.06	.39	.28	.28	.04	.59	.24	.55	1.22	2.01	6.34	2.60	2.95	1.14	1.77	.98
NIU RIDGE 1335		.15			.15																												
N WAILUA DITCH 1051	A	12.34	*	*	.50	.20	.30	.25	.56	*	*	1.00	.30	.26	.56	.50	*	*	.80	.20	.10	.30	.16	*	*	.65	.70	.70	2.10	.50	*	*	1.70
PM MAINTN 1115		4.98	.01	.04	.07		.02	.05	.06	.19		.08	.05	.14	.36	.27	.12	.43	.48	.09	.02	T		.06	.10	.03	.58	.14	1.51	.01	*	.05	.03
PRINCEVILLE RANCH 1117		4.93	.07	.09			.07	.10	.05	.04	.02	.30		.35	.36	.38	.10	.27	.41	.05			.05	.12	.08	.07	.46	.36	.75	.01	.17	.11	.09
PUEHU RIDGE 1040		.10			.10																												
PUHI 1013	A	3.47	*	*	.40	.05	.09	.24	.04	*	*	.09	.02	.06	.31	.23	*	*	.26	.11	.02	.02	.02	*	*	.27	.33	.04	.66	.13	*	*	.08
RESERVOIR 6 1004	A	5.91	*	*	.29	.11	.15	.24	.15	*	*	.29	.09	.05	.29	.33	*	*	.47	.03	.02	.07	.06	*	*	.68	.68	.05	1.62	.03	*	*	.21
WAIMEA 930	A	.67					T	.08	.05	*	*	.06			.16	.06	*	*	.03	.01				*	*	.02	.03	.01	.05		*	*	.11
WAHIAWA MOUNTAIN 990	A	12.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.01
WAIAHI LOWER 1054		8.15	.10	.02	.12	.09	.08	.29	.50	.37	.02	.06	.11	.10	.44	.36	.08	.22	.64	.14	.03	.21	.09	.43	.09	.07	.62	.29	1.24	.35	.36	.54	.09
WAIAHI UPPER 1052		9.57	.10	.10	.10	.05	.05	.30	.65	.30	.34	.06	.15	.04	.60	.48	.05	.23	.43	.21		.19	.14	.17	.28	.05	.53	.71	1.75	.41	.43	.57	.05
WAIAWA 943		.23	.19	.04																													
WAILUA KAI 1065	A	2.30	*	*	.03		.08		.18	*	*	.18		.04	.31	.29	*	*	.35	.08		.07		*	*	.05	.10	.16	.21	.05	*	*	.12
WAIMEA 947		.00																															
WEST LAWAI 931	A	2.11	*	*	.02		.07	.05	.06	*	*	.09			.30	.13	*	*	.23	.03				*	*	.16	.70	T	.10	.02	*	*	.15
ISLAND OF OAHU																																	
BERETANIA PUMPING STA		.76	.01	.05	T		.04	.08	T	.02			T	T	T	.01	.01	.18	.15		T					T	.05	.03		.02	.05	T
CAMP H M 807	A	.35	*	*	.04				*	.07			*	*	.06	*	*	*	.08					*	*	.01	*	*	.01	*	*	.08	
CHURCH COLLEGE LATE		2.40	.13	.27	.21		.02	.03	.01		.04	.30	.10	.14		.03	.05	.01		.10	.06	.04	.02	.01	.02	.34	.02	.09	.21			.05	.10
COCONUT ISLAND 840.1		.61	*	.04						*	.02		.02	.11	.02	.02		.07		.02	.06		.01			.06	.04	.09	.01		.02	.04	.01
EWA PLANTATION 741		.02												.01	T				.01														
HELEMANO INTAKE 881	A	2.68	*	*	.20	*	*	*	*	*	*	.12	*	*	.15	*	*	*	.76	*	*	*	.05	*	*	.15	*	*	1.02	*	*	*	.23
HOKULOA 725.2	A	.65	*	*	*	*	*	*	*	*	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.38	*	*	*	*	.15	.07
HONOLULU OBSERV 702.2		.03	T	T											.01				T												.02		
HONOLULU WBFO 703	R	.21		.01	T		T	T	T	T			T	.04	T	T	T	.02	T	T	T			T		.02	T	T	T		.08	.04	.01
HONOLULU SUBSTA 704		.40	.05			.04	.02	.03		.05								.06						.04							.05	.06
H S P A EXP STA 707		1.33	.10		.01		.04	.05		.06				.03	.02	.01		.11	.22		T					.02	.04	.16	T			.45	.01
KAHANA 883	A	20.59	*	*	1.43	*	*	*	*	*	*	2.56	*	*	*	*	*	*	3.12	*	*	*	*	*	*	3.34	*	*	*	*	*	*	0.25
KAHUKU 912	A	1.80	*	*	.01					*		.07			.15	.14	*	*	.28	.15	*	*	*	*	*	.68	.02	.03	.05	*	*	*	.22
KAILUA FIRE STA 791.3		.54	.05									.05	T	T	T	T	T	T	T	.35	*	*	*	*	*	*	*	*	*	*	*	*	.09
KALIHI RES SITE 777		5.28	.06	.62	.02				.14	.18	.02				.06	.04	.20	.12	.14	.08	.02		.08	.02	.06	.98	.22	.78	.38	.14	.18	.54	.20
KANEOHE MAUKA 781		2.80	.04	.07	.11		.11		.03	.09	.07			.07	.17	.05	.01	.16	.18	.18	.01	.01	.04			.16	.34	.32	.13		.14	.31	
KANEOHE RANCH 838	A	1.88	*	*	.28	T	.06	T	T				T	.03	.01	.08	*	*	.05	.17	.01	T		*	*	.15	.59	.11	.28	T	*	*	.06
KAPALAMA 773	A	1.66								*	*	.15					*	*	.15	.50				*	*	.17	.15	.21	.15	.18			
KAWAIHAPAI 841	A	.55								*	*	.04			.09		*	*	.14					.02	*	.15	.04	.02			*	*	.05
KAWAI 1KI INTAKE 880.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KEMOO CAMP 8 855	A	.63					.03		.01	*	*	.05			*	.19	*	*	.17					*	*	.01	.10	.01	.01		*	*	.05
KODLA DAM 833		10.14	.84	.75	*	.05	.04	.23	.97	.15	.01	*	.05	.17	.41	.68	.73	.73	1.20	.36	.08	*	.05	.14	.10	.35	.62	*	.72	.02	.02	.40	.27
LUALUALEI 854		.03													.01																*	*	.02
LUALUALEI WTR TUNNEL	A	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.70	*	*	*	*
MAKAHA KAI 796.1	A	.01							T	.01	T							T	T												T		
MAKAHA PUMP 800.2	A	.00																															
MAKAPUU POINT 724		2.53								.01					.60	.02			.07	.05		.03	.02			.14		.40	.01		.04	1.03	.11
MANOA 712		*			.40	.24	.06	.12	.05					.09	.07			.41	.24		.02	.01	.02	.05	.17	.01	.29	*	.82	.02	.11	.53	*
MANOA TUNNEL 2 716		11.10	.44	.42		.04	.38	.02	.64	.24	.02	.02		.04	.16	.16	.48	.54	.06	.06	.06	.08	.04			1.00	.40	2.34	.74	.80	.44	.90	.58
MOANALUA 770		.96			*	*	*	.10						.03	.03		*	*	.35						.04	.06	.05	.07	.02			*	.21
NUUANU RES 4 783		7.64	.28	.78	.06		.08			.10	.18	.02			.20	.04	.04	.18	.06	.04	.04	.04	.06		.02	1.08	.22	1.20	.68	.26	.32	1.36	.30
NUUANU RESERVOIR 5 775	A	4.46	*	*	*	.82	.15	*	.04	*	*	.20	T	T	.04	.10	*	*	.40	.05	*	T	*	*	*	.52	.32	.60	.34	T	*	*	.88
OPAEULA 870	A	1.95	.02		.01		.03		.01	.11	.09				.11	.20	.04	.37	.41	.02	.01			.01	.05	.11	.15	.06	.10			.03	.01
PALOLO VALLEY 718		8.76	.22	.62	.02	.06	.32		.30	.22			.04	.12	.16	.12	.22	.32	.06	.06			.12		.02	.66	.08	2.16	.58	.54	.46	.74	.54
PAUOA F ATS 784		12.58	.30	.96	.28	.14	.32		.26	.62	.02			.14	.18	.14	.28	.28	.16	.08	.10	.02	.02			1.16	.28	2.38	.92	.84	.48	1.48	.74
PORTLOCK ROAD 724.4		.05											.01		.02												.02						
PRI WAHIAWA 820.2	A	.45	*	*	.01					*	*	.01		.01	.07	.09	*	*	.22					*	*	.03	.01	T	T		*	*	T
PUNALUU 884	A	3.44	*	*	.12					*	*	.61	.05		.17	.22	*	*	.45	.12	.02			*	*	.98	.08	.17	.24		*	*	.21
PUNCHBOWL CRATER 709	A	1.12	.01	.08	.03		.05	.10	.03	.08				.02	.04	.03	.08	.14	.10	.02	.04			.01		.03	.04	.10	.02	.02	.01	.03	.01
ST STEPHENS SEM 788		2.64	.01	.46		T	.05			.06	.02			.02	.07	.05		.06	.01	.08	.01	T	.01	.02	T	.34	.30	.23	.33	.03	.04	.35	.11
TANTALUS 2 780.5		7.53	.01	.68	.25	.10	.33	.28	.02	.44	.17		.03	.04	.10	.18	.07	.55	.34	.06	.04	.01	*	*	*	.65	.82	.39	.01	.22	.94	.07
UNIV OF HAWAII 713	A	1.65	*	*	.38	T	.02	.01	*	*	*	.06	T	.09	.01	.01	*	*	.33		T		*	*	*	.05	.15	.16	.07	T	*	*	.31
WAHIAWA DAM 843	A	.90	*	*	.07		.05		.03	*	*	.02			*	.20	*	*	.25					*	*	.03	.15	.03	.02		*	*	.05
WAIAHOLE 837	A	6.72			.74		.08					.84	.05		.18	.48			.52	.09	.11	.06	.02			.03	.41	.78	1.20	.05			.48
WAIALAE KAHALA 715		.55	T	.08	T	T	T			.02			T	.03	.01	.04	T	.01	.09	T						.01	.06	.07	.02			.11	T
WAIALUA 847	A	.43									T				.10	T		.07	.05							.08	.01	T	T			.09	.03
WAIANAE 798.2	A	.10		.03						.05					T																		
WAIANAE MAUKA 803	A	1.62	.20	*	*	*	.17	*	*	.33	*	*	*	.03	*	*	.14	*	*	*	.20	*	*	.18	*	*	*	.27	*	*	.10	*	*
WAIAWA 835	A	9.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.16
WAIKANE 885	A	8.72	*	*	.86	*	*	*	*	*	*	1.22	*	*	*	*	*	*	1.60	*	*	*	*	*	*	1.64	*	*	*	*	*	*	3.40
WAIKIKI 717.2		.51								.01				.03	.01	.01			.05							.01		.02	.01			.36	T
WAIMANALO EXP FARM		1.26		.44			.05			.06						.01		.10	.03	.07						.21		.07		.02			.20
WAIMEA 892	A	1.71	*	*	.10		.04		T	*	*	.18			.13	.05	*	*	.84					*	*	.08	.16	.09	T		*	*	.04
WAIPAHU 753	A	.20												.07	.11				.05								.01	.05					
WILHELMINA RISE 72.		2.50	.42	.06		.04	.06			.12		.02	.02	.04			.10	.30	.04						.04	.22	.02	.28	.16	.02	.10	.26	.18
ISLAND OF MOLOKAI																																	
KALAMPAPA 553	A	.89	*	.06	.02	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	.11	.06	*	*	.03	*	*	.04	*	*	.17	.03	.13	.22
KAUNAKAKAI 536	A	.00																															

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KEONELELE PENS 551	A	.00																													
KUALAPUU 534	A	.68				T			.01						.03	.01	.05	*	.24	.01	.02							T		*	*	.29
MAPULEHU 542		2.57	.05					.22	.10	.15	.09		.10		.06	.15	.21	.09						.23	.22	.17	.06	.02	T	.10	.20	.10		.12
MAUNALOA 511	A	.90	*	*	.06			.02									*	*	.04					*	*	.01		.01		*	*	.76
MOLOKAI AP 524		.25														T	T	.16	T	T								.02		T	.07	T
PUUOHOKU RANCH 542.1		.74	.08	T	.01	T	.06	.01	T	T	T	.01	T	.01	T	T	.07	T		.01	T	.10	T	.03	.08	.10	T	T	.13	.04	T	T	T
WAIKOLU 540	A	.44	*	*	*	*	.44	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
* * *																																	
ISLAND OF LANAI																																	
KANEPUU 690	A	1.55																					*	*	*	*	*	.03	*	*	*	1.52
KAUMALAPAU HARBOR 658	A	.95																												*	*	*	.95
LANAI CITY 672	A	2.09							.08	T		T	T	T				*	.02				.01		*	T	.09	.14	.26		.01	*	1.48
LANAIHALE 684	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00
MAHANA 694	A	.65																											T	*	*	*	.65
MALAUEA 676	A	.20																					*	*	*	*	*	.03	*	*	*	*	.17
WAIAKEAKUA 685	A	.15																*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.15
* * *																																	
ISLAND OF MAUI																																	
AUWAHI-252	A	.30																										.30					
HALEAKALA 8 E S 434	A	2.18		.02		.02		.09	.17					.09	.15		.04	.01	.60	.10	.07	.02			.02	.01	.15	.42	.02		.18			
HALEAKALA RANCH 432	A	.92	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.34	*	*	*	*	*	*	*	*	.10	.25	*	*	*	.23
HALEAKALA RS 338		2.42		.03	T													*	.03	T	T						.02	2.05	.05		.08	.15	.01
HALEAKALA SUMMIT 338.4		2.92	*	*	.06													*	.06					*	*	T	.04	2.40	.06	.03	*	*	.27
HALIIMAILE 423	A	.95					.02	.11	.11						.03	.04	.07	*	.25	.01	.09	.01					.01	.09	.07		.03	*	.01
HAMAKUAPOKO 485		3.64		.01	.01	.05	.07	.09	.28	.11	.01		.04		.10	.15	.13	.36	.13	.04	.13	.08				.12	.25	.38	.20	.08	.36	.44	.02
HANA 354		2.22				.04			.32	.14	*	.06		.04	.13	.12	.04	*	.18		.01	.05		.05	*	.40	.24	.11	.03	.04	.08	*	.14
MANA AIRPORT 355		3.57	.18	.11	.03	.21	T	.11	.28	.09		T		.11	.06	.07	.06	.12	.11	.02	.03	.03	T		.06	.64	.06	.27	.26	.15	.10	.38	.03
HANAHULI 281		3.52	.15	.20	.02	.05			.35	.10	.08	.07			T	.08	.10	.12	.05			.12			.08	.38	.42	.20	.31	.10	.06	.45	.03
HOLUA CABIN 259.5	A	1.79	*	*	.21	T	*	T	*	*	*	*	*	*	.25	*	*	*	*	*	*	*	*	*	*	*	*	*	1.33	*	*	*	*
HONOKOHAU 480	A	14.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.10
HONOKOHUA 493	A	2.66	*	*	.03	.04	.04	.10	.19	*	*	.11			.04		*	*	.52	.02				*	*	.27	.14	.31	.22	.04	.19	*	.40
HONOMANU GULCH 341	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.00
KAANAPALI AIRPORT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-	-	-		.07	-		.03	-	-
KAHOMA INTAKE 374	A	1.96	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.96
KAHULUI WSO 398	R	.23				T		T	.04					T	T	T	.01	.04	T	T	.01					.01	T	.04		.04	.02	.01	.01
KAILILILI 436	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*
KAILUA 446		11.25	.15	.54	.46	.17	.02	.37	.58	.19	.03	.01	.06	.12	.25	.18	.31	.30	.29	.06	.17	.04	.03	.03	.22	.84	.31	1.60	1.30	.56	.48	1.48	.10
KAUAULA INTAKE 375	A	1.23	*	*	.24	*	*	*	*	*	*	.08	*	*	*	*	*	*	.17	*	*	*	*	*	*	.17	*	*	*	*	*	*	.57
KEAHUA 410		.29						.04	.01	.02									.13		.03						T	.01	.01		.02	.02	
KEANAE 346	A	22.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.50	*	*	*
KEAWAKAPU BEACH 260.2		.33																														.33	
KIHEI 311		.00																															
KIPAHULU 258		6.22	.49	.40		.21		.14	.16	.52					.16			.58			.11	.12				.54	.81	.43	.69	.16	.04	.66	
KULA HEIGHTS 323.2		.61																	.12									.26	.15			.08	
KULA SANATORIUM 267		.55		.24	.01													.08	.01						.05	.03	.02	.02	T			.09	
LAMAINA 361		.21																														.21	
LAUNIUPOKO INTAKE 376	A	3.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.30
LAUNIUPOKO VILLAGE 372	A	.15																										.05				.10	
LUPI UPPER 442	A	15.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.00	*	*	*	*
MAHINAHINA 466	A	1.93						.10	.23								.16	.22	.22							.05	.04	.26	.15		.20	.30		
NAKALELE - FLO 60-497	A	1.56	*	*	.05	*	*	*	*	*	*	.37	*	*	*	*	*	*	.23	*	*	*	*	*	*	.21	*	*	*	*	*	*	.70
OLINDA 332	A	1.16	*	*	.06	T			.01	*	*	T		.01	.03		*	*	.14	.03	T						.01	.38	.06	T	*	*	.41
OLOWALU 296		.00																															
OLOWALU GULCH 377	A	2.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.40
PAAKEA 350		19.28	.52	.50	.33	.55	.04	.43	.54	.81	.14		.16	.21	.54	.25	.39	.46	.60	.32	.44	.20	.25	.24	.44	1.51	1.39	2.43	3.20	.70	.85	.75	.05
PAIA 406		1.39				T	.02		.22	.10			.01	T	.03	.08	.05	.07	.15	.01	.02	.01				T	.05	.22	.02	T	.24	.05	.04
PANILEIMULU 259.2	A	2.56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.70	*	.86	*	*
POHAKEA BRIDGE 307.2	A	.04																													.04		
POLIPOLI SPRINGS 267.2	A	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.90
PUOHOKAMOA 2 343	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUU KUKUI MAKAI 472	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.00
PUUNENE 396		.09							T	.02					.01												T	T			.05	.01	
SPRECKELSVILLE 400.2		.71							.10	.04				.01	.01	.08	.01		.06	T	.05					.01	T	.10			.21	.02	
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	2.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.35
UKUMEHAME 301	A	.00																															
ULUPALAKUA RANCH 250		.63	.22		.09														.06							.01	.12	.04		.03		.06
WAHIKULI 364	A	.54			.09																										.45		
WAIEHU CAMP 484	A	.69		.06					.17						.04				.02								.05	.05		.10	.20		
WAIHEE VALLEY 482	A	1.06	*	*	*	*	*	*	.09	*	*	*	*	*	.09	*	*	*	.05	*	*	.09	*	*	*	*	.09	.09	*	*	.37	.19	*	*
WAIKAMOI 449	A	17.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.20	*	*	*
WAIKAMOI DAM 336	A	13.23	*	*	.66	.18	.06	.69	.80	*	*	.32	.01	.21	.41	.09	*	*	1.24	.19	.36	.12	*	*	*	1.19	.91	3.40	.94	.18	*	*	1.25
WAIKAPU 390	A	.12																													.12		
WAILUKU 386		.40							.06	*	*	.01	T	T			*	*	.04	.01							.10	.01		*	*	*	.17
WAIOPAI RANCH 256	A	.25																						*	*	.09		.16					
* * *																																	
ISLAND OF HAWAII																																	
AHUA UMI 75	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
AWINI 182.1	A	24.54	*	*	1.96	*	*	*	*	*	*	2.83	*	*	*	1.22	*	*	.95	*	*	*	*	*	*	.71	*	*	*	*	*	*	26.87
EAST HONOKANE 183.2	A	23.76	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23.76
HAINA 214		13.69			.01	.04	.94	.65	.30	.13	.03	.03	.13	.01	.16	.03	.02		.08	.08	.53	.02	.04	.10	.06	.43	1.47	6.15	.48	1.02	.33	.19	.22
HAKALAU 142		20.02	.13	.22	.27	.10	.04	.62	.32	.47	.09	.13	.48	.14	.15	.11	.03	.06	.39	.16	.53	.12	.02	.25	.26	.74	.57	10.15	1.27	.79	.19	1.16	.06
HALEMAUMAU 92	A	9.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.77	*	*	*	.32
HALEPIULA 117	A	9.38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.38
HALEPOHAKU 111	A	4.48	.07																.05	*	*	.23	*	.04	T		.34	3.55	.10	T	T	.10	
HAWAII VOLCNS NP HQ 54		16.62	T	.18	.48	.02	.03	.12	.01	.11	.07	T	.03	.01	.01	T	T	*	.50	.06	.08	.12	*	.15	.33	.48	.25	11.02	1.09	.05	.15	1.16	.11
HAWI 168	A	7.23	*	*	.15	.05	.11	.07	.28	*	*	.10	.03	.11	.16	.01	*	*	.40	.28	.25	.07	.04	*	*	.36	.35	1.95	1.17	.52	*	*	.58
HILO COUNTRY CLUB 86.6		39.74	.02	.45	.85	.05	.10	1.25	.05	.75	.10	.02	.35	.20	.02	.05		.25	.55	.07	.85	.60	.85	.82	.90	.80	3.10	18.02	4.00	.80	.38	3.15	.32
HILO WSO 87	R	20.53	.18	.34	.09	.11	.45	.41	.15	.26	.09	.23	.18	.01	.02	.12	.27	.22	.09	.18	.50	.02	.21	.22	.32	.42	8.99	2.49	.94	1.15	.68	1.04	.07
HOLUALOA 70	A	3.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.30	*	*	*	*
HOLUALOA BEACH 68	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HONAUNAU 27		5.05	.01	.05	.30	.42				.02	.04	.30	.13	.02	.09	.15	.15	.30	.33	.39	.08	.06	.05	.10	.04	.05	1.10	.22	.46	.02	.03	.04	.10
HONOHINA 137		26.46	.07	.15	.12	.12	.08	.95	.32	.57	.04	.10	.24	.31	.10	.08		.15	.65	.21	.78	.09	.08	.29	.44	.90	1.05	13.93	1.74	.94	.36	1.48	.12
HONOKANE 181.1	A	19.28	*	*	1.81	*	*	*	*	*	*	2.33	*	.18	*	*	*	*	*	*	3.40	*	*	*	*	*	*	*	*	*	*	*	11.56
HONOMU MAUKA 138		43.03	.03	.25	.40	.18	.21	1.14	.76	.64	.10		.48	.44	.41	.06	.10	.19	.64	.29	1.69	.05	.45	.45	.52	1.31	2.75	18.50	4.75	1.74	.88	3.21	.41
HONUAULA 71	A	2.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.80	*	*	*	*
HUALALAI 72	A	1.27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.27	*	*	*	*
HUEHUE 92.1	A	2.02	.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.55	*	*	*	*	*	*	.10	.09	.32	.08	.57	.25	*	*	*
KAALA IKI 12	A	11.25		.36	T							.06				T			T				.03	.04	.10	.09	.04	7.15	2.30	.02	.09	.89	.12
KAAWALOA 29	A	5.16	*	*	.12	.01	*	.02	*	*	*	.52	.27		.10	.06	*	*	.22	.55	.46	.41	*	*	*	.46	1.01	.05	.40	T	*	*	.50
KAINALIU 73.2		5.67	.11	.14		.19	.24			.02	.24	.02	T	.01		.08	.05	*	.13	.48	.18	.24	.36	.03	.17		.76	.12	.85	.02	.92	.22	.09
KALAPANA NO 1 67.8		8.21	T		.40	.02	.01	.01		.20	.01	.10	*	*	*	*	.08	.05	*	*	*	*	.13	T	.01	.12	*	*	4.60	.82	.17	T	1.56	.05
KAMAOA NO 2 5	A	7.03	.60	*	*	*	*	*	*	.27	*	*	*	*	*	*	*	.17	*	*	*	*	*	.28	*	*	*	3.65	*	1.94	*	.12
KAMUELA 192.2		3.72				T	.21	.12					.03	.02	.09	.02	.05		.04	.05	.16	.22	.02	.08		.05	.07	1.74	.38	.05	.22	.06	.04
KAMUELA AIRPORT 191		1.91				T	.08	.01		T	T		T	.03	.03	T	.04	.06	.02	.02	.13	.06	.02	.02	.01	.02	.07	1.19	.03	.02	.04	T	.01
KAPAPALA RANCH 36	A	9.22	*	1.30	*	*	*	*	*	*	*	*	*	*	*	*	*	.33	*	*	*	*	*	*	.09	*	*	5.70	*	*	.04	*	1.76
KAPOHO LANOING 93.5	A	12.22	*	*	*	*	*	*	1.16	*	*	*	*	*	*	.91	*	*	*	*	*	1.44	*	*	*	*	*	*	*	8.71	*	*	*
KAWAINUI LOWER 193	A	21.61	*	*	*	*	*	*	3.07	*	*	*	*	*	*	1.38	*	*	*	*	*	*	3.16	*	*	*	*	*	*	4.00	*	*	*
KEAAU 92		23.58	.17	.16	.22	.16	.32	.57	.26	.48	.02	.04	.30	.35	.05	.11	.12	.12	.60	.09	.45	.07	.09	.31	.20	.83	1.08	11.64	1.61	.92	.92	1.20	.12
KEALAKEKUA 26.2		4.25	.06	.05	.01	.02	.09		T	.47	.02	.06	.02		.02	.06	.04		.09	.43	.25	T	.24	T	.26		1.21	.05	.37		.14	.04	.25
KEHENA 181.2	A	13.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.90

See reference notes following Station Index.

DAILY PRECIPITATION

(Continued)

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
[illegible]	A	14.40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	14.40	•	•	•	•	•
[illegible] 89.2	A	38.67	.06	.23	.78	.09	.74	.93	.21	.67	.01	.01	.31	.24	.07	.93	.02	.24	.46	.20	1.06	.59	.43	.58	.68	.70	2.51	16.18	4.93	.75	1.10	3.07	.83
[illegible] 179.1	A	9.26	•	•	.21	.11	.14	.14	.66	•	•	.22	.04	.16	.17	.02	•	•	.53	.24	.36	.10	.02	•	•	.66	1.00	1.90	1.15	.72	•	•	.91
[illegible] MAULILI [illegible]	A	13.50	•	•	.18	.03	.26	.25	.32	•	•	.15	.03	.05	.31	.01	•	•	.93	.40	.99	.23	.01	•	•	.47	1.43	3.18	1.83	.76	•	•	1.18
[illegible] MISSION 175.1		11.85	.04	.17	.09	.05	.18	.11	.40	.24	.04		.04	.06	.44	.01	.05	.06	.46	.39	.45	.14	.07	.07	.30	.29	1.07	2.50	2.25	.71	.75	.40	.02
[illegible] OMEA 196	A	13.72	•	•	•	•	•	•	1.83	•	•	•	•	•	•	.92	•	•	•	•	•	2.05	•	•	•	•	•	•	8.92	•	•	•
[illegible] KAILUA 68.3		3.32		•	.08	.06				.06	•	.94			.11			•	.05	.35	.08 .03						.15	.21 .05	.08		•	•	1.30
[illegible] VILLAGE 93.8		.24					.01												.13	.58	.42	.31	.05	.35	.13	.40	2.18	12.93	1.59	.41	1.43	.36	.28
[illegible] KAUMAHELE MTC 199		74.78 14.54		.08	.04 .35	.08	1.48 .86	.71 1.10	.24 .42	.21 .29		.01	.06 .14	.01 .02	.15 .40	.01	.24 .40	.01	.13 .04	.58	.42 .64	.31 .06	.05 .04	.24	.06	.24	1.16	3.56	1.76	.96	1.20	.34	.16
[illegible] KAUMAHELE MILL 170	A	11.34	•	•	.02	.01	.40	.81	.27	•	•	.27	.10	.03	.16		•	•	.16	.04	.54	.04	.04	•	•	.31	1.46	4.12	.92	1.05	•	•	.59
[illegible] CAMP 19		17.65		.21	.32	.03		.11		.04	.06	.06	.09	.02	.04	.02		.09 .02	.14 .04	.09	.12	.02	.07	.05	.14 .01	.43 .04	.42 5.30	12.43 2.70	1.27 .13	.22 .10	.07 .04	1.02 .37	.07
[illegible] KAWAKA 76	A	8.78	.73															•	•	•	•	•	•	.85	•	•	•	•	•	•	14.85	•	•
[illegible] SCHOOL SITE 78	A	17.14	.44	•	•	•	•	•	•	.88	•	•	•	•	•	•	.12	•	•	•	•	•	•			.06	.68		.29		1.10	.40	
[illegible]		6.34	.85	.09							.93						.18		1.76													
[illegible] 2	A	4.71	•	•	.21		.01										•	•	.33		•	•	.25					1.90	.01	T	•	•	2.00
[illegible] KEA BEACH 9A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[illegible] LOA SL PE 085		2.75																				.12					1.35	1.27		.01			
MIDDLE HOLUALOA 68.1	A	6.00	.47	•	•	.03	•	•	•	•	•	.60	•	•	•	•	•	2.34	.48	.24	•	•	•	•	•	1.37	•	.47	•	•	•	•	•
MIDDLE PEN 147.1	A	.95	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	.90	•	•	•	•	•
[illegible] 18	A	6.10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	6.10
MOUNTAIN VIEW 91		33.73	.37	.35	.48	.11	.25	.86	.25	.78	.04	.06	.34	.22	.06	.10	.19	.20	.96	.16	.63	.21	.24	.36	.24	.98	1.48	15.60	3.98	.74	1.43	1.88	.18
NAALEHU 14	A	10.46		.15	T					•	•	.01							.26	•		•	•	•	•	.83	•	•	•	•	•	1.73	
NAPOOPOO 28	A	3.77	•	•	.41	•	•	•	•	•	•	.54	•	•	•	•	•	•	•	•	•	.04	T	T	.08	•	•	3.45	1.12	.07	T	•	.65
NAULU FOREST 38.6		5.86			.33	.02	.02	.02		.03	.03		•	•	•	•	•	•	•	•													
NIULII 179	A	11.19	•	•	.25	.05	.16	.19	.60	•	•	.18	.05	.05	.27	.02	•	•	.24	.75	.40	.04		•	•	.91	1.07	2.86	.80	.68	•	•	1.62
OKALA 223		24.40		.02	.16	.03	.40	.85	.38	.53	.04	.08	.13	.07	.14	.03	.10		.15	.15	1.02	.14	.07	.27	.23	.47	1.64	10.50	4.04	.64	.94	.86	.32
OPIHIMAUE 2 24.1		1.20	T		T	.01	.05	T	.11	T	.26	.01	T		.02		.01	.03	T	.01	T	.11	.03	.08	T	.14	.06	.13	.01	.01	.02	.07	.03
ORCHID LAND EST 91.5	A	21.03	•	•	•	•	•	•	1.70	•	•	•	•	•	•	1.45	•	•	•	•	•	2.18	•	•	•	•	•	•	•	15.70	•	•	•
PAAUHAU 217		13.61				.03	.74	.67	.17	.18	.04		.22		.08		.04		.06		.48	.01	.04	.18	.03	.26	1.18	7.22	.40	.94	.29	.16	.19
PAAUILO 221		19.50			.03	.06	1.32	.47	.19	.12		.01	.05	T	.09	T	.13	.01	.08	.28	.24	.24	.04	.30	.11	.21	1.76	10.48	1.30	.35	1.24	.21	.18
PAHALA 21		7.68	•	•	.26																			•	•	.06		5.72	1.20		•	•	.44
PAHOE 65		21.11	.27	.25	.35	.09	.09	.34	.29	.50	.02	.04	.29	.25	.33	.15	.16	.17	.83	.47	.49	.05	.09	.36	.24	.99	1.11	9.35	1.34	.49	.70	.92	.09
PAKAO 37	A	4.90	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4.90
PAPAIKOU 144.1		25.23	.12	.43	.26	.32	.04	.39	.96	.44	.07		.19	.13	.25	.04	.04	.28	.24	.28	.93		.02	.50	.26	.57	1.59	11.30	2.45	.52	.73	1.81	.07
PAPAIKOU MAUKA 140.1		39.62	.11	.39	.76	.09	.34	1.07	.42	.74	.20	.04	.39	.12	.16	.10	.48	.50	.40	.40	1.37	.14	.69	.21	.67	.64	2.30	14.07	5.78	1.17	1.30	3.79	.78
PEPEEKEO MAKAI 144		19.48	.07	.42	.26	.05	.02	.95	.60	.48	.02	.07	.21	.01	.35	.11	.01	.07	.43	.24	.46	.05	.10	.53	.36	.76	.54	8.54	1.75	.97	.17	.87	.01
PIIHONUA 89	A	36.80	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	36.80	•	•	•
POHAKULOA 107	A	1.30	•	.19	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.03	•	•	1.07	•	.01	•
PUAKO 95.1	A	.65		T					T																			.62	T			.03	
PUU KIHE 120	A	9.68	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	9.68
PUU LAAU 102.1	A	1.34	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.34
PUU LEHUA 73	A	2.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2.00
PUU MALI 113	A	4.51	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4.51
PUUOKUMAU 167	A	8.38	•	•	•	•	•	.75	•	•	•	•	•	•	.56	•	•	•	•	•	•	1.96	•	•	•	•	•	•	5.11	•	•	•	•
PUU OO 82		14.34	T	.37	.19	.01	.01	.20	T	.09	.10		.05	T	.06			.11	.19	T	.07		.02	.06	.29	.38	.90	8.60	1.45	.24	.24	.61	.10
PUU WAAWAA 94.1	A	1.70	•	.48							.13																	.66	.01		.42		
SADDLE ROAD 1 84	A	29.75	•	•	•	•	•	•	2.60	•	•	•	•	•	•	.15	•	•	•	•	•	•	•	•	•	•	•	2.39	•	24.00	•	•	•
SOUTH POINT CORRAL 3	A	4.30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.59	.32	•	•	•	•
UMIKOA 118		12.42		.06			.06	.28				.02	.02	.04	.03	.01				.03			.01	.20	.04	.09	.92	10.33			.28		
UPOLU POINT USCG 159.2		4.11		.02	.04	.05	.03	.02	.06					.11	.07		.06	.02	.06	.12	.24	T			.07	.07	.40	1.36	.66	.32	.22	.11	
WAIAKEA SCD 88.2		38.44		.26	1.15	.11	.28	1.12	.13	.16			.43		.01	.11	.04	.25	.50	.12	.70	.20	.37	.43	1.01	1.11	1.97	19.20	4.03	.84	1.05	2.45	.46

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN 02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	2	1.0	6.5	18	NE	25	87	79	68	80	0	7	17	3	2	2	31	42	7.5
HONOLULU, OAHU, WBFC	6	14.5	15.0	33	NE	25	66	60	48	63	16	7	0	0	0	0	23	75	5.2
KAHULUI, MAUI, WB AIRPORT	4	15.0	15.5	28	NE	31+	78	69	54	74	9	10	0	0	0	0	19	77	4.2
LIHUE, KAUAI, WB AIRPORT	6	12.9	13.2	23	NE	06+	77	74	63	75	10	16	3	0	0	0	29	45	6.3

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	74	76	74	72	72	72	73	74	74	73	75	69	69	76	75	74	74	73	76	75	76	74	74	77	73	69	69	77	78	78	70	73.7
	MIN	55	56	56	56	56	57	57	53	46	55	54	56	57	59	58	47	61	61	61	62	51	56	54	56	58	58	54	58	58	58	57	56.2
KILAUEA POINT 1133	MAX	84	81	83	82	82	82	82	83	85	80	84	80	82	80	82	79	82	80	82	80	82	81	82	82	83	80	80	83	83	82	81	81.7
	MIN	74	72	74	72	74	73	73	74	73	73	72	71	71	74	75	72	75	73	74	71	73	72	74	73	70	71	75	75	75	69	73	72.9
LIHUE WSO 1020.1	MAX	85	87	85	86	87	85	86	87	85	86	86	85	85	85	87	87	86	86	87	87	87	86	86	84	86	82	84	86	86	87	87	85.8
	MIN	74	74	76	74	75	73	74	76	77	77	76	74	73	74	76	75	77	77	78	77	78	76	76	75	75	76	76	78	77	78	76	75.7
MAKAHUENA POINT 940.1	MAX	85	83	87	86	86	85	86	85	85	86	86	86	86	86	88	87	86	84	84	86	86	87	85	83	85	81	84	86	85	84	86	85.3
	MIN	69	77	72	77	70	67	68	77	77	74	68	72	69	73	68	67	72	75	77	75	71	72	75	71	71	64			70	76	74	72.0
MANA 1026	MAX	90	87	87	89	90	89	88	89	90	90	88	87	88	90	90	89	90	90	90	90	88	90	90	90	90	88	88	84	88	89	91	88.9
	MIN	66	65	65	65	65	64	68	68	67	66	68	67	70	69	70	72	68	68	68	67	68	67	68	65	69	66	70	70	70	69	67	67.6
NIU RIDGE 1035	MAX	83	84	83	83	84	83	84	87	85	88	89	89	89	88	89	88	90	91	92	86	85	87	86	85	83	82	81	80	82	85	83	85.6
	MIN	65	66	64	65	64	62	63	62	63	62	64	66	65	65	66	67	65	66	65	65	64	66	65	62	63	61	60	60	63	64	62	63.9
WAIAHI LOWER 1054	MAX	83	82	81	84	85	82	81	82	81	84	84	83	80	80	81	82	83	81	82	82	84	81	82	82	78	80	78	81	86	84	82	82.0
	MIN	64	65	66	68	68	67	69	68	65	68	69	66	69	67	68	69	69	71	70	67	67	66	67	69	68	70	70	70	70	71	68	68.0
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	87		85	86	86	86	86	87		86	87	86	85	86	87		86	87	87	87	88	87		87	86	87	85	86	87		88	86.5
	MIN	70		70	73	70	71	71	70		67	71	69	70	71	72		71	73	71	69	68	70		70	72	74	74	72	72		72	70.9
HONOLULU WBFC 703	MAX	90	90	90	90	90	91	90	90	91	92	90	90	91	91	90	91	91	91	91	91	90	90	91	90	91	89	91	92	90	90	89	90.5
	MIN	77	74	77	78	75	78	78	78	76	76	78	76	77	77	78	77	77	79	77	77	77	77	77	76	78	77	75	78	78	76	77	77.1
HONOLULU SUBSTA 704	MAX	83	82	83	83	83	83	84	83	83	84	83	82	83	83	82	83	84	84	83	84	83	83	83	84	83	83	82	85	85	83	82	83.2
	MIN	74	73	74	75	71	73	75	75	75	76	77	74	74	75	75	73	75	76	74	75	76	75	75	73	75	73	74	77	77	75	74	74.6
KAHUKU 912	MAX			85	85	85	85	85			85	86	85	85	84			85	85	85	85	85			86	86	85	84	85			87	
	MIN			72	72	73	75	74			73	75	74	71	71			73	72	75	75	75			70	72	73	73	75			72	
KANEOHE MAUKA 781	MAX	83	82	82	82	82	83	83	83	84	85	84	83	83	83	83	82	82	83	84	83	84	82	84	85	83	82	79	82	81	85	83	82.9
	MIN	70	70	71	75	69	71	72	71	74	74	71	69	72	70	72	70	72	72	74	73	71	73	74	69	70	73	72	75	73	74	74	71.9
LUALUALEI 804	MAX	88	88	89	87	88	87	88	88	88	89	89	88	87	88	88	86	88	87	88	88	90	90	88	91	86	90	88	87	88	90	89	88.2
	MIN	74	77	73	75	74	75	76	76	76	72	75	75	72	74	77	75	74	77	76	74	75	76	76	75	75	75	77	77	76	76	74	75.1
MAKAPUU POINT 724	MAX	80	80	79	79	79	80	77	79	80	79	81	80	80	81	80	80	76	80	80	78	80	81	80	80	79	80	79	79	80	81	82	79.6
	MIN	73	71	73	70	69	73	70	68	69	69	69	67	70	69	70	70	70	67	73	69	68	73	72	70	71	68	71	73	70	69	70	70.1
OPAEULA 870	MAX	81	81	81	81	81	80	81	79	81	83	83	81	82	83	81	77	79	81	81	82	84	82	82	83	82	82	79	81	82	89	82	81.5
	MIN	64	64	68	68	67	66	68	68	67	65	67	69	67	67	67	69	68	69	69	65	65	65	65	67	67	69	69	70	70	70	69	67.4
PRI WAHIAWA 820.2	MAX	84	85	85	85	86	85	85	84	85	85	87	85	84	85	84	82	84	87	89	84	88	86	88	87	87	86	85	87	86	90	90	85.8
	MIN	66	67	64	66	68	66	68	66	65	64	67	68	68	68	69	70	63	70	70	65	66	66	68	65	67	69	69	70	71	70	70	67.4
WAIALUA 847	MAX	87	87	87	87	86	86	87	85	85	87	88	87	86	87	86	86	86	87	87	87	90	86	87	86	87	88	86	87	87	87	87	86.7
	MIN	64	66	67	65	67	66	66	67	65	64	67	68	69	69	70	71	69	69	70	65	66	66	66	67	67	69	70	70	71	71	71	67.7
WAIKIKI 717.2	MAX	90	89	89	88	88	88	89	88	88	88	88	88	88	89	88	90	90	88	89	89	90	90	88	88	89	89	87	87	90	89	87	88.6
	MIN	73	74	73	73	73	75	74	74	74	72	72	72	74	73	74	74	74	75	75	74	74	74	74	73	75	74	75	77	76	74	73	73.9
WAIMANALO EXP FARM	MAX	85	84	83	84	85	86	85	85	86	86	86	86	85	85	86	86	85	86	85	86	85	86	85	85	85	86	86	86	85	87	86	85.4
	MIN	74	72	73	72	70	73	74	71	74	73	73	72	72	73	72	71	72	73	73	74	74	72	72	71	71	72	74	75	74	72	70	72.5
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	84	84	85	84	83	83	82	84	83	84	85	83	84	83	83	84	83	84	84	85	85	85	84	84	83	83	82	83	85	83	84	83.7
	MIN	71	76	70	73	72	70	70	70	70	70	73	73	71	70	70	70	70	74	73	71	70	71	77	71	74	73	72	72	72	74	71	71.7
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ISLAND OF LANAI																																	
LANAI CITY 672	MAX	79	79	81	81	87	87	84	87	79	79	81	79	78	78	79	73	76	82	79	78	80	77	79	79	78	76	74	78	79	77	79	79.4
	MIN	58	65	64	66	67	61	68	67	67	65	67	66	67	64	67	67	68	66	67	66	65	63	67	65	66	66	67	67	67	68	65	65.8
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	61	63	61	63	68	65	65	65	64	65	66	68	63	71	71	67	65	67	65	69	67	62	62	67	65	68	67	62	66	65	67	65.5
	MIN	41	45	40	45	41	41	44	43	44	44	52	41	49	55	55	48	50	50	50	47	43	39	42	43	45	54	51	48	46	50	49	46.3
HALEAKALA SUMMIT 338.4	MAX			60	64	64	64	63			58	60	56	56	59			53	54	58	58	60			65	58	58	56	54			59	
	MIN			44	50	49	48	44			41	44	40	46	48			40	42	45	44	42			39	42	44	43	44			40	
HANA AIRPORT 355	MAX	84	83	84	86	84	87	85	85	86	86	86	86	86	85	86	85	86	85	85	84	87	87	87	86	84		85	85	84	85	85	85.3
	MIN	68	70	71	71	71	71	71	71	71	71	72	70	69	69	72	69	73	72	72	70	71	70	72	70	74		72	72	70	72	68	70.8
KAANAPALI AIRPORT	MAX	87			87															86		86				87	85		86	87			
	MIN	70			73															70		69				70	71		71	74			
KAHULUI WSO 398	MAX	89	89	89	88	90	89	88	89	89	91	90	87	87	87	87	88	89	88	87	90	88	88	88	89	89	86	89	89	92	90	87	88.6
	MIN	72	69	70	72	73	73	72	69	72	64	74	70	73	72	73	73	74	74	74	68	68	74	72	70	75	74	74	71	73	74	73	71.9
KAILUA 446	MAX	78	79	79	79	79	80	80	79	79	80	79	79	79	79	80	80	79	79	79	79	79	79	78	78	78	76	73	78	79	78	87	78.9
	MIN	65	68	68	67	67	68	68	68	68	69	70	67	68	68	69	69	68	68	70	70	69	68	68	68	68	69	67	68	68	68	67	68.1
KEAWAKAPU BEACH 260.2	MAX	86	89	91	91	92	88	91		91	90	90	93	91	93	94	91	91	91	91	89	91	92	89	89	90	89	90	91	89	88	89	90.3
	MIN	65	65	65	65	66	67	65		64	63	66	67	67	66	67	67	67	67	68	66	67	66	66	67	68	74	71	68	67	73	64	66.8
KULA SANATORIUM 267	MAX	76	75	74	75	76	76	75	76	76	71	75	78	76	75	76	75	77	78	77	75	76	74	72	73	73	78	78	73	77	75	80	75.5
	MIN	58	58	59	58	59	60	60	59	60	55	57	59	60	60	60	59	60	58	59	59	57	58	60	60	61	62	66	62	63	62	57	59.5

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 261	MAX	87	87	88	89	88	88	90	88	88	88	87	88	88	88	89	89	91	92	89	89	88	88	88	89	87	89	89	88	88	88	89	88.5
	MIN	69	71	71	68	67	69	71	68	68	68	71	70	69	69	72	70	71	71	70	70	69	68	68	72	71	74	72	71	70	72	68	69.9
MAILUA 386	MAX			84	83	84	83	83			84	85	84	81	83			84	83	85	83	83			83	81	83	79				84	
	MIN			72	72	72	73	72			71	72	71	70	73			73	73	74	74	73			72	72	73	74				72	
• • •																																	
ISLAND OF HAWAII																																	
HAIKU 216	MAX	84	84	84	84	83	75	84	82	82	82	85	85	82	84	84	84	84	83	81	82	84	83	84	80	84	74	74	82	81	80	83	82.2
	MIN	66	68	68	66	67	66	68	66	67	66	67	67	66	68	67	67	69	69	69	67	67	67	67	67	69	68	67	70	68	69	67	67.4
HAWAII VLCNS NP HQ 54	MAX	71	72	65	68	69	72	70	71	70	71	70	69	71	77	72		72	72	73	72		71	68	72	70	68	69	66	68	76	69	70.5
	MIN	55	53	55	54	56	56	56	57	53	54	56	55	54	54	58		57	55	59	55		56	57	57	59	61	44	58	57	59	53	55.6
HILO WSO 87	MAX	82	82	83	82	81	82	84	82	83	83	82	82	82	82	83	84	84	83	84	84	84	83	81	83	76	77	82	83	85	83	83	82.4
	MIN	64	66	66	65	68	66	68	66	64	64	68	66	66	68	69	68	68	69	70	67	66	68	68	68	72	71	69	70	66	70	64	67.4
KAINALIU 73.2	MAX	79	79	80	79	80	80	79	81	77	79	80	79	80	81	79	78	80	81	81	79	79	80	80	79	80	80	82	79	77	77	78	79.4
	MIN	63	64	67	63	65	65	64	67	65	64	66	64	64	63	64	65	65	65	68	64	64	64	64	66	65	68	68	65	65	68	66	65.1
KAMUELA 192.2	MAX	73	74	73	73	71	70	72	71	72	73	73	72	70	74	72	73	75	71	70	73	75	72	74	72	74	70	71	72	73	78	72	72.5
	MIN	58	60	60	60	59	60	59	59	60	60	60	59	60	60	60	62	62	60	62	60	60	59	60	60	62	62	62	62	62	60	59	60.3
KAMUELA AIRPORT 191	MAX	76	76	72	75	74	72	74	80	75	75	75	75	72	75	75	74	75	75	72	75	74	76	74	75	76	71	71	72	75	76	76	74.5
	MIN		58	55		62	58	52		58				58		50	52	52			59	52		57	52	54	56	60	56	56	61	52	
KEAAU 92	MAX	83	82	82	81	81	80	82	81	81	81	81	82	81	82	81	82	83	82	82	83	81	81	79	80	83	75	77	81	82	84	81	81.2
	MIN	66	66	67	66	67	68	66	68	65	65	66	67	66	68	68	68	69	69	68	69	67	67	67	67	69	70	68	68	68	70	66	67.5
KEALAKEKUA 26.2	MAX	77	79	79	78	79	81	80	81	77	78	79	79	77	81	78	78	80	81	80	80	78	79	78	81	80	80	82	79	78	78	80	79.2
	MIN	63	65	65	65	64	65	64	65	65	64	65	63	64	64	64	65	66	65	66	65	63	65	65	66	65	67	68	66	66	67	67	65.1
KOHALA MISSION 175.1	MAX	81	81	80	80	80	78	80	81	79	80	81	81	79	80	82	81	81	80	80	80	81	80	80	79	80	73	74	79	78	81	81	79.7
	MIN	66	67	68	67	69	68	69	68	69	69	70	68	68	69	70	68	69	70	70	69	69	68	68	67	69	70	68	69	70	69	69	68.6
KONA (KAILUA) 58.3	MAX	86		87	85	86	87	86			85	86	85	86	85	86		86	86	75	87	87			87	87	85	85	86			87	85.6
	MIN	79		69	72	72	73	71	81		71	73	72	70	72	72		72	75	72	71	71			72	74	72	73	73			73	72.7
KULANI CAMP 79	MAX	65	66	62	63	61	67	64	66	65	65	65	64	65	67	67	67	64	67	77	65	67	70	63	65	64	67	67	65	64	69	64	65.7
	MIN	46	49	52	49	51	48	49	50	49	49	51	46	48	50	53	53	55	49	55	47	50	54	53	55	55	56	57	55	50	55	49	51.2
MAUNA LOA SLOPE 085	MAX	54	56	62	66	63	61	59	52	52	57	59	56	57	58	55	54	60	59	57	53	50	53	54	61	50	49	49	54	55	52	57	55.9
	MIN	39	37	40	46	45	44	38	33	32	36	37	40	39	38	39	38	42	39	40	37	33	35	33	38	39	42	37	38	38	38	38	38.3
MOUNTAIN VIEW 91	MAX	79	79	79	77	77	77	78	77	77	77	77	78	78	76	79	79	79	77	76	78	78	79	79	79	79	70	71	75	81	81	81	77.6
	MIN	59	59	59	61	62	63	64	60	60	60	63	61	61	63	64	64	64	64	64	64	61	61	61	61	65	67	65	65	59	59	59	62.0
NAALEHU 14	MAX	83	82	82	81	82	82	82	82	82	82	78	81	81	82	82	82	82	82	82	83	82	82	82	81	82	78	76	78	78	81	81	81.2
	MIN	67	67	67	66	68	67	70	70	70	68	68	69	68	67	67	67	68	69	72	70	68	68	68	67	70	69	67	69	69	67	67	68.2
OOKALA 223	MAX	81	80	82	80	81	76	81	81	80	80	81	82	80	82	82	83	82	81	80	81	82	82	80	81	81	74	77	80	79	82	81	80.5
	MIN	68	68	69	67	67	67	68	67	67	67	66	66	66	69	69	70	69	69	69	69	68	68	68	68	68	69	68	67	66	67	67	67.8
OPIHIHALE 2 24.1	MAX	81	79	78	79	81	82	82	81	82	87	78	79	82	81	77	80	78	82	83	81	78	80	80	79	78	81	78	78	82	79	76	80.1
	MIN	62	62	63	62	62	62	63	66	66	66	63	61	62	62	63	65	65	67	66	66	62	64	64	65	65	66	66	66	68	66	60	64.1
PAHALA 21	MAX			82	82	84	83	83			84	80	87	83	83			84	84	85	84	84			84	84	80	79	77			83	
	MIN			62	64	65	63	64			61	65	65	64	65			65	65	67	66	64			64	68	69	67	64			63	
PUAKO 95.1	MAX	88	87	90	91	89	89	91	88	88	89	88	87	90	88	88	85	87	90	92	91	89	89	88	89	89	88	85	88	85	86	89	88.4
	MIN	73	74	72	74	74	69	72	74	73	72	75	73	74	73	76	74	74	74	70	72	75	73	72	74	76	72	66	73	71	69	73	72.8
UPOLU POINT USCG 159.2	MAX	83	80	83	84	85	83	82	84		82		86	79	85	83	85	85	84	82	85	83	82	84	83		78	79	82	78	82	81	82.6
	MIN	69	61	72	70	72	70	69	73		72		69	72	70	72	71	71	72	72	72	71	72	71	71		73	71	71	71	74	73	71.0

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
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ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.37	.29	.39	-	.45	.38	.40	.30	.24	.37	.33	.35	.37	.24	.37	.32	.40	.37	.37	.37	.36	.27	.39	.42	*	*	.74	.34	.46	.22	.41	10.638
	WIND	144	191	207	234	226	230	221	196	171	183	195	177	186	154	186	176	190	227	215	178	159	200	198	204	*	*	640	222	196	162	222	6090
	MAX	90	90	89	90	89	85	88	90	88	87	88	88	88	86	88	88	88	86	85	86	91	88	84	87	-	-	87	81	85	92	89	87.6
	MIN	67	67	67	67	67	67	68	67	67	67	67	66	67	67	68	69	68	69	69	68	68	67	67	68	-	-	68	69	69	70	67	67.7
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ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.26	.32	.41	.30	.40	.40	.45	.30	.33	*	.60	.30	.37	.30	.30	.25	.29	.41	.31	.30	.36	.30	.30	.41	.26	.39	.36	.24	.24	.07	.40	9.93
	WIND	15	28	32	40	42	44	44	33	29	26	30	40	34	29	30	29	31	49	44	32	23	23	32	32	26	44	52	37	37	21	46	1054
	MAX	92	93	93	93	92	93	92	90	90	93	92	92	92	89	89	90	94	93	91	90	93	89	92	94	88	92	90	89	89	94	93	91.5
	MIN	69	69	68	67	68	68	68	68	67	67	67	68	69	69	69	76	70	69	69	68	69	67	67	67	68	70	70	70	70	71	69	68.7

See Reference Notes Following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP	EVAP.	SPECIAL		OBSERVER
ISLAND OF KAUAI														
ALEXANDER RESV. 983		0140	02	KOLOA	2	21 57	159 32	1610				C		MCBRYDE SUGAR CO.
ANAHOLA 1114	A	0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C		LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A				MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A				MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1		0465	02	KAWAIHAU	2	22 06	159 22	350				C		LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A				MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A				LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A				GROVE FARM CO LTD
HANALEI TUNNEL 1053	A	1170	01	KAWAIHAU	1	22 05	159 28	1218					S	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A				KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A				LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690					S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A	2974	01	HANALEI	1	22 11	159 26	380		8A				KILAUEA SUG PLTN CO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C		KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHOU	1	22 08	159 23	830		7A				LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C		LIHUE PLTN CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A				LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C		KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	1	22 13	159 25	317		6A		C		KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4566	01	HANALEI	1	22 11	159 24	415		7A				KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4568	01	HANALEI	1	22 14	159 24	180	8A	8A				U S COAST GUARD
KITANO 1037.1		4650	03	WAIMEA	3	22 02	159 41	2150				C		KEKAHA SUGAR CO
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A				KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A				GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A				GROVE FARM CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A				KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A				MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		C		HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A				LIHUE PLTN CO LTD
LIHUE WSO 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C	J	NATL WEATHER SERVICE
MAKAHUENA POINT 940.1		5785	02	KOLOA	2	21 52	159 27	52	8A	8A				U S COAST GUARD
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A				OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A				KEKAHA SUGAR CO LTD
M+M 1001		6097	02	KOLOA	2	21 55	159 28	300				C		GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		MID			S	U S GEO SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A				LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148		MID			S	U. S. GEO. SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A				KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A				LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A	6893	02	KIHUE	2	22 04	159 26	650					S	LIHUE PLTN CO LTD
PH WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		C		MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		C		PRINCEVILLE RANCH
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		7A				KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A				GROVE FARM CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A				GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	02	LIHUE	2	22 04	159 27	740				C		LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C		MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100						MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	565	6A	6A				LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		8A				LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A				KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A				LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20		8A				KEKAHA SUGAR CO.
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A				MC BRYDE SUG CO LTD
ISLAND OF OAHU														
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C		DON MITCHELL
AIEA FIELD 625 761	A	0111	03	EWA	3	21 25	157 57	455		7A				CLOSED 7/31/70
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A				BOARD OF WTR SUPPLY
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A		C		DEL MONTE CORPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P				BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A				H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C		J.L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9A	7A				OAHU SUGAR COMPANY
HALAWA SHAFT 77192		0964	02	HONOLULU	2	21 23	157 54	170				C		BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274				C		WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220		VAR		C		H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A			U S COAST & GEODETIC
*HONOLULU WSFC 703	R	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	J	NATL WEATHER SERVICE
*HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C		NATL WEATHER SERVICE
H S P A EXP STA 707		2146	02	HONOLULU	2	21 18	157 50	50		8A				H S P A EXP STATION
KAALAKEI 724.6		2269	02	HONOLULU	2	21 18	157 43	10				C		MRS. MILLIE ZAPATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800						WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C		KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C		KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910		MID				BOARD OF WTR SUPPLY
KAMEHAME 724.7		3056	01	OAHU	1	21 19	157 41	1380				C		CLOSED 2/11/70
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A				STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A				KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	01	KOOLAULOA	1	21 36	157 54	10				C		GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A				WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WACALUA	5	21 34	157 59	1180						WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A				C & F OFFICER HEDG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C		USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 08	1500						U S NAVY
LULUKU		5655	01	KOOLAUPOKO	1	21 24	157 49	240				C		MILNOR LOM
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A				LUNALILO HOME
MAKAHA KAI 796.1	A	5766	04	WAIANAE	4	21 28	158 13	15		7A				HAROLD ROBERTS
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		C		CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	538	8A	8A				U S COAST GUARD
MANANA 754.2		6089	03	OAHU	3	21 25	157 58	240				C		CLARENCE LEE
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A				MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650		MID				BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1	21 21	157 46	410				C		EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4025				C		FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MID				BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		VAR				BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C		WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995		MID				BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640		MID				BOARD OF WTR SUPPLY
PORTLOCK ROAD 724.4		8126	02	HONOLULU	2	21 17	157 43	6		7A				MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C		PINEAPPLE RESEARCH INST
PUNALUU 884	A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A				KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	1	21 39	158 02	900				C		JACK N. WHEELER
ST STEPHENS SEM 788		8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A				REV R CULLINAN
TANTALUS PEAK 780		8730	02	HONOLULU	2	21 20	157 49	2000				C		BOARD OF WATER SUPPLY
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A				R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A				DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C		WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C		WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A				SPENCER TINKER
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C		WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A	9231	04	WAIANAE	4	21 27	158 11	10		7A				ALFRED J. PRATT
WAIANAE MAUKA 803	A	9238	04	WAIANAE	4	21 29	158 09	1575						CAPITAL INVEST CO
WAIAWA 836	A	9261	03	EWA	3	21 28	157 56	800						WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760						WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180				C		WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A				WAIMANALO EXP FARM
WAIMEA 892	A	9593	05	WAIALUA	5	21 38	158 04	330		7A		C		WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	9738	03	EWA	3	21 23	158 01	59		8A				OAHU SUGAR CO
WILHELMINA RISE 721		9980	02	HONOLULU	2	21 18	157 47	1100		MID				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI														
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAMALO MAUKA 542.6		3046	01	MOLOKAI	1	21 04	156 52	60				C		W.J. CARSTEN
KAUNAKAKAI 536	A	3541	01	MOLOKAI	1	21 06	157 01	12		6A				MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1	21 06	157 01	70				C		MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560						MOLOKAI RANCH, LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C		DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A				H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C		DOLE COMPANY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUKOO KAI 545.1		8221	01	MOLOKAI	1	21 05	156 48	10				C		MISS MIRIAM DAVIS

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP.	SPECIAL		OBSERVER
ISLAND OF MOLOKAI														
PUUOHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C		PUUOHOKU RANCH
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550				C		MOLOKAI RANCH
ISLAND OF LANAI														
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650				C		DOLE COMPANY
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C		DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A				DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370						ST. DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 52	156 55	1430						DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150				C		DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040						DOLE COMPANY
ISLAND OF MAUI														
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060		VAR				ULUPALAKUA RANCH
FIELD 46 474		0541	04	LAHAINA	4	20 59	156 38	1050				C		MAUI PINEAPPLE CO.
HAELAAU 477		0790	04	LAHAINA	4	20 57	156 36	2980					S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A				HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C		LKHEED SP & MSLE DIV
HALEHAKU 492.2		1016	02	MAKAWAO	1	20 55	156 17	690				C		PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A				MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM & SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	120		8A		C		HARRY HASEGAWA
HANA AIRPORT 355		1125	01	HANA	1	20 48	156 01	61	11A	11A				HAWAIIAN AIRLINES
HANAHULI 281		1148	01	HANA	1	20 41	156 01	325		7A				KOALI RANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930						HALEAKALA NATL PARK RGS
HONOKOHAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870						MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A				MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494		1914	04	LAHAINA	4	21 01	156 38	125					S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280						HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	03	WAILUKU	3	20 53	156 33	1100				C		STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A				AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	4	20 59	156 33	650				C		EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 38	2000						PIONEER MILL CO LTD
KAHULUI WSO 398	R	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C	J	NATL WEATHER SERVICE
KAILIILI 436	A	2630	01	MAKAWAO	1	20 51	156 16	2520						E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A				E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 38	1585						PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	2	20 39	156 08	1020				C		KAUPO RANCH
KEAHUA 410		3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM & SUG CO
KEANAE 346	A	4091	01	HANA	1	20 50	156 10	980						E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A			S	A. L. CORELL
KIHEI 311		4489	03	WAILUKU	3	20 47	156 27	90		7A		C		HAWAIIAN COM & SUG CO
KIPAHULU 258		4634	01	HANA	1	20 39	156 04	260		7A				HANA RANCH
KUKUI 380		4887	04	LAHAINA	4	20 54	156 35	5788					S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C		KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C		PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR				PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A				PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240						E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A				PIONEER MILL CO LTD
MOKUPEA 475		6521	04	LAHAINA	4	20 59	156 37	1290					S	MAUI LAND-PINEAPPLE CO
NAKALELE FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340		VAR				MAUI LAND-PINEAPPLE CO
OLINDA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR				MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P				PIONEER MILL CO.
OLOWALU GULCH 377	A	7066	04	LAHAINA	4	20 51	156 36	800						PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	1	20 49	156 07	1260		6A		C		E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	1	20 55	156 23	170		6A				HAWAIIAN COM & SUG CO
RANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570						KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR				STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A	8336	01	HANA	1	20 50	156 13	2980						E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500						PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A				HAWAIIAN COM & SUG CO
PUU PAKI 352	A	8553	01	HANA	1	20 46	156 03	2160					S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A				HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR				KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230						HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	4	20 48	156 35	75		7A				PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C		ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	580		8A				PIONEER MILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A				WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	1	20 52	156 12	1200						E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C		MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A				WAILUKU SUGAR CO
WAILUA IKI 348	A	9460	01	HANA	1	20 48	156 09	2630					S	EAST MAUI IRRIGATION CO
WAILUKU 386		9484	03	WAILUKU	3	20 54	156 30	180	7A	7A				WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A	9765	02	HANA	2	20 38	156 12	220						HALEAKALA RANCH CO
ISLAND OF HAWAII														
AHUA UMI 75	A	0040	05	N KONA	5	19 38	155 47	5220						GREENWELL RANCH
AWINI 182.1	A	0190	01	N KOHALA	1	20 10	155 43	1870		VAR				KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A	0450	01	S KOHALA	1	20 07	155 43	4240						KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C		HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A				PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648						HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770						KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220						STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C		HAWAII NAT PARK
HAWI 168	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C		KOHALA SUGAR CO
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	2	19 41	155 10	1520		VAR		C		HILO COUNTRY CLUB
HILO WSO 87	R	1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C	J	NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220						STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A				VARIOUS RANCH HANDS
HOLUALOA MAKAI 69.16		1570	04	HAWAII	4	19 38	155 58	1040				C		SID WEINRICH
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A				CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A				PEPEEKEO SUGAR COMPANY
HONOKANE 161.1	A	1864	01	N KOHALA	1	20 09	155 44	800		VAR				KOHALA DITCH CO LTD
HONOMU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A		C		PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250						STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190						STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A				HUEHUE RANCH
KAALA IKI 12	A	2249	03	KAU	3	19 08	155 34	1340		7A				HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1340		8A				CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4		2512	03	KAU	3	19 08	155 46	3700				C		RUSSELL R. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A				KONA EXPERIMENT STA
KALAPANA NO 1 67.8		2894	02	S HILO	2	19 20	155 02	10		VAR				HAWAII VOLCANOES NAT PK
KAMADA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375						HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A				PARKER RANCH
KAMUELA AIRPORT 191		3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A				HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A				HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3369	02	PUNA	2	19 30	154 52	290		VAR				BOARD OF WATER SUPPLY
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080						HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	285	8A	8A				PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	03	KAU	3	19 14	155 29	1700				C		HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C		MISS AMY GREENWELL
KEHENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840						KOHALA DITCH CO LTD
KIOLAKAA A C F 6	A	4625	03	KAU	3	19 04	155 38	1925						STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490						MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		8A				KOHALA SUGAR CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A				KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A				K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720						HONOKAA SUGAR CO
KONA (KAILUA) 68.3		4764	04	N KONA	4	19 39	156 00	30	8A	8A		C		STANDARD OIL CO OF CAL
KONA VILLAGE 93.8		4765	04	N KONA	4	19 50	155 59	20		8A				KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1	20 02	155 21	840		6A				HAMAKUA MILL CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A				HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	1	20 08	155 34	300		6A				HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A				ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300				C		MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 20	5735						ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01	S KOHALA	1	20 01	155 41	2615				C		STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A				KONA EXPERIMENT STATION
MANUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A				STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103		8A				MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE 085		6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID				MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4	19 37	155 58	475		8A				KONA EXPERIMENT STA

STATION INDEX

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP	EVAP	SPECIAL (SEE NOTES)	OBSERVER
HAWAII												
[illegible]	A 6	'D	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
[illegible]	A 6	07	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
[illegible] VIEW		652	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
[illegible]	A	6508	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
[illegible]	A	6589	KAU	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
[illegible]	A	6697	S KONA	4	19 28	155 55	395		7A			HAWAII VOLCANOES NAT PK
[illegible] WEST 38.6		6731	PUNA	2	19 19	155 08	1400		VAR			KOHALA SUGAR CO
[illegible]	A	6806	N KOHALA	1	20 14	155 45	75		6A			LAUPAHOEHOE SUGAR CO
[illegible]		7131	N HILO	2	20 01	155 17	430	7A	7A			MISS C LEONARD
[illegible] 2 24.1		7166	S KONA	4	19 16	155 53	1270	7A	7A			BOARD OF WATER SUPPLY
[illegible] AND EST 91.5	A	7169	PUNA	2	19 34	155 00	445		VAR			
PAAUHAU 117		7204	MAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAKEA 221		7312	MAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA		7421	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 85		7457	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHAO 37	A	7643	KAU	3	19 23	155 28	5000					HAWAIIAN RANCH CO. INC.
PAPAIKOU [illegible]		7711	S HILO	2	19 47	155 06	200		7A			HAUNA KEA SUGAR CO.
PAPAIKOU MAINA 140.1		7721	S HILO	2	19 47	155 08	1270		7A			HAUNA KEA SUGAR CO.
PEPEEKEO MAKAI [illegible]		8009	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PITHONUA 89	A	8051	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POHAKULA 107	A	8063	MAMAKUA	2	19 45	155 32	6511		VAR		K	STATE DIVISION OF PARKS
PUAKO 95	A	8186	KOHALA	5	19 59	155 50	5		8A	8A		ERWIN H. RAPP
PUU KINI 120	A	8343	MAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAA 102.1	A	8452	MAMAKUA	5	19 50	155 26	7440					STATE DIV OF FISH-GAME
PUU [illegible] 73	A	8469	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU [illegible] 3	A	8515	MAMAKUA	1	19 55	155 26	6900					KUKAIAU RANCH CO
PUU [illegible] 167	A	8548	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU [illegible]		8559	S HILO	2	19 44	155 23	9340		6A		K	DON WINTERS
PUU [illegible]	A	8559	N KONA	5	19 47	155 51	2520		7A		K	DILLINGHAM RANCH INC
[illegible]	A	8590	S HILO	2	19 42	155 12	2340				K	BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A	8675	KAU	3	18 57	155 41	500					HAWAIIAN RANCH COMPANY

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	OBSERVER
UMIKOA 11.8	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANOHOULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH
CLOSED STATIONS ISLAND OF OAHU												
AIEA FIELD 625 761	A	0111	03 EWA	3	21 25	157 57	155		7A			CLOSED 7/31/70
NEW STATIONS ISLAND OF MOLOKAI												
PUKOO KAI 545.1	8221	01	MOLOKAI	1	21 05	156 48	10				K	MISS MIRIAM DAVIS

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are in tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data

* Amount included in following measurement, time distribution unknown

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

B Adjusted to a full month

J "Supplemental Data" table

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset

VAR Observation time is variable

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building

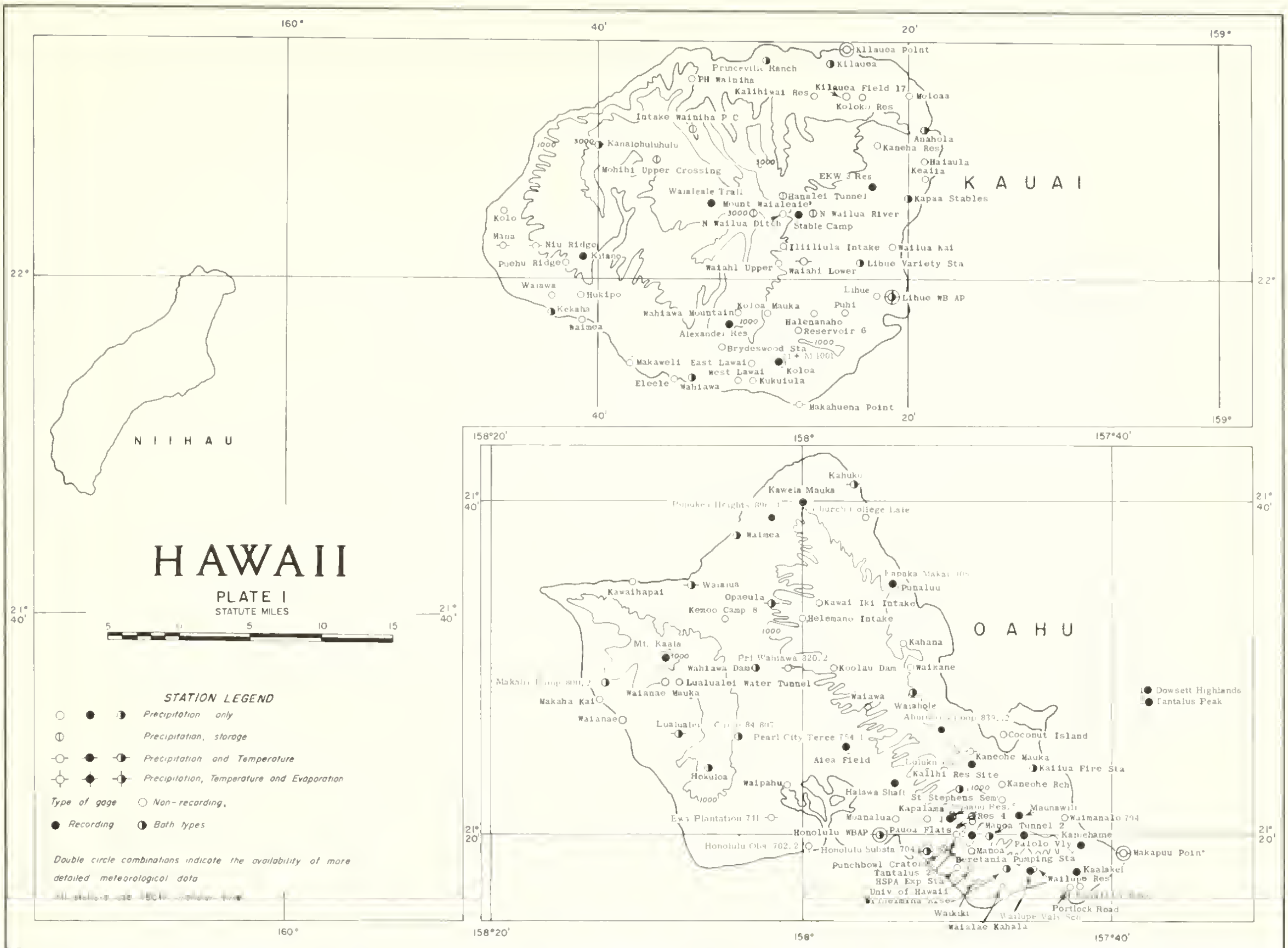
Stations appearing in the tables with no data were either missing or received too late to be included in this issue

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

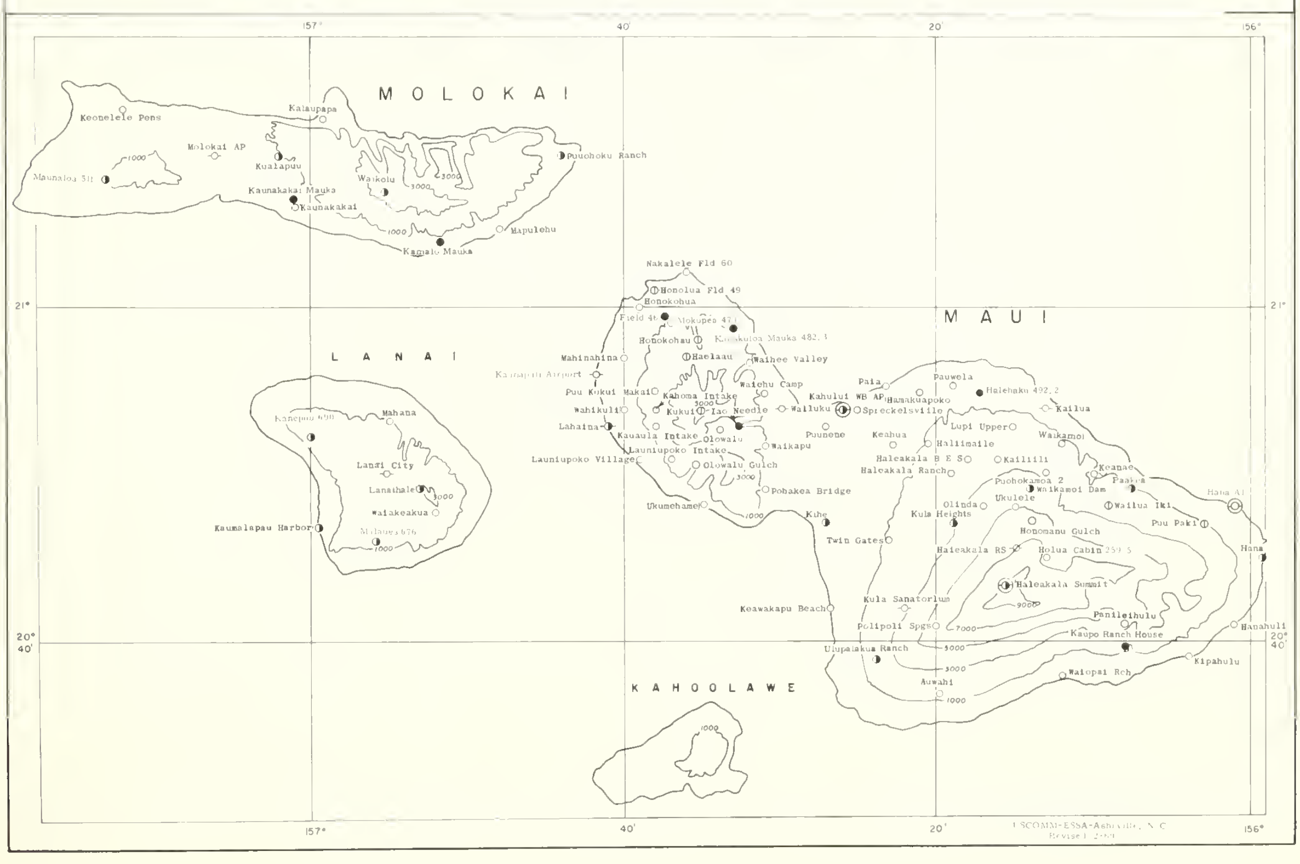
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

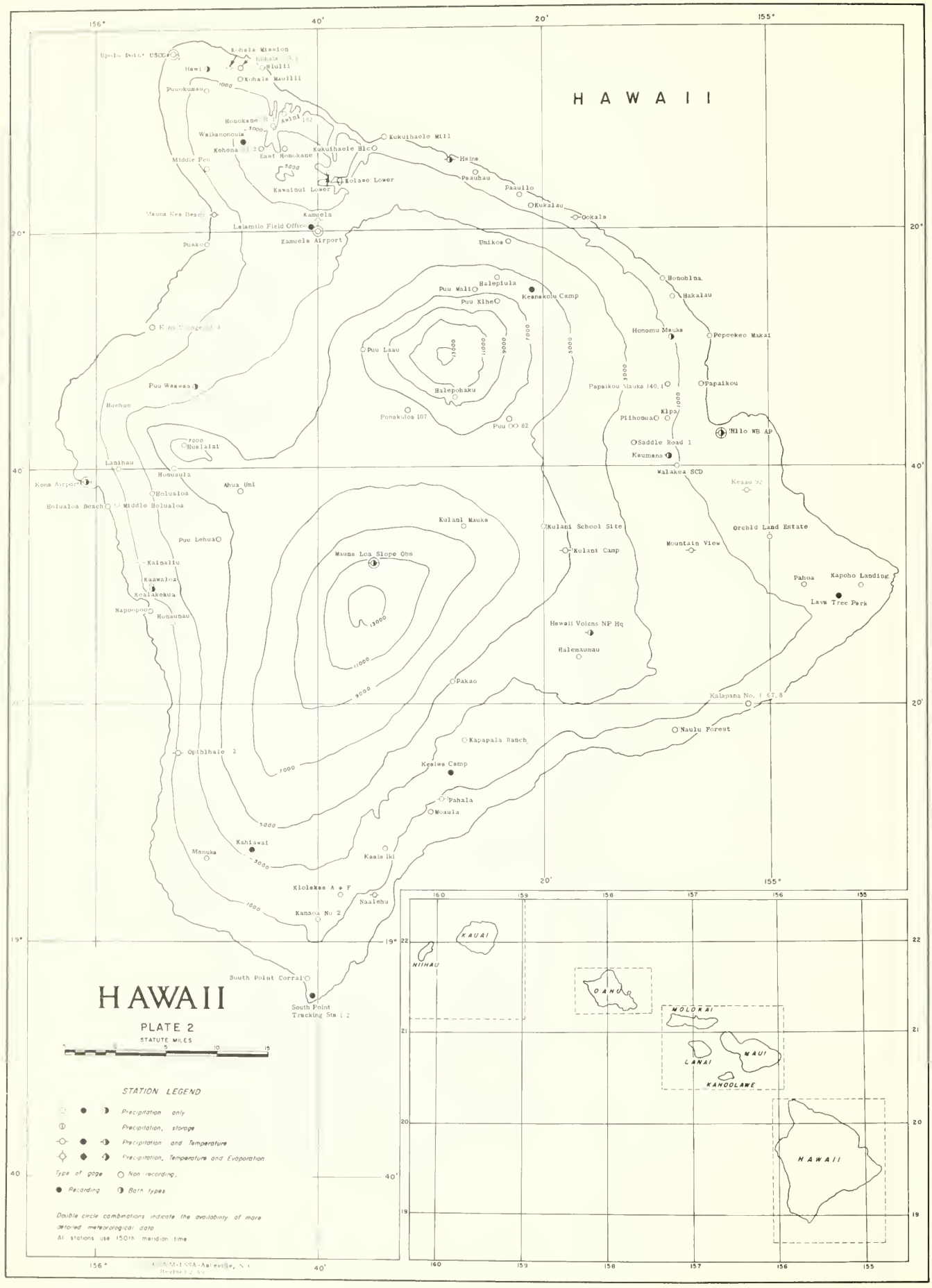
USCOMM-NOAA-ASHEVILLE-12/2/70-890



HAWAII
PLATE I
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
NIIHAU
KAUAI
OAHU
Kilauea Point
Kilauea
Princeville Ranch
PH Wainiha
Kalihiwai Res
Kilauea Field 17
Koloko Res
Moloaa
Intake Wainiha P C
Anahola
Kanalohuluhulu
Kaneha Res
Haiaula
Kealia
Mohihi Upper Crossing
EKW 3 Res
Waialeale Trail
Hanalei Tunnel
Kapaa Stables
Mount Waialeale
N Wailua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Kitano
Iliiliula Intake
Wailua Kai
Puehu Ridge
Lihue Variety Sta
Waiahi Upper
Waiahi Lower
Waiawa
Hukipo
Lihue
Lihue WB AP
Kekaha
Waimea
Wahiawa Mountain
Koloa Mauka
Puhi
Alexander Res
Halenanaho
Reservoir 6
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Waimea
Punaluu
Waialua
Kawaihapai
Opaeula
Kawai Iki Intake
Kemoo Camp 8
Helemano Intake
Kahana
Mt. Kaala
Wahiawa Dam
Koolau Dam
Waikane
Lualualei Water Tunnel
Waianae Mauka
Waiawa
Makaha Kai
Waiahole
Waianae
Dowsett Highlands
Tantalus Peak
Coconut Island
Pearl City Terce 764.1
Kaneohe Mauka
Aiea Field
Kailua Fire Sta
Kalihi Res Site
Hokuloa
Waipahu
Halawa Shaft
Kaneohe Rch
St Stephens Sem
Kapalama
Maunawili
Res 4
Waimanalo 794
Ewa Plantation 741
Moanalua
Manoa Tunnel 2
Honolulu WBAP
Pauoa Flats
Kanehame
Palolo Vly
Honolulu Subsata 704
Manoa
Makapuu Point
Punchbowl Crater
Beretania Pumping Sta
Tantalus 2
Kaalakei
HSPA Exp Sta
Wailupe Res
Univ of Hawaii
Portlock Road
Waikiki
Wailae Kahala
160°
40'
20'
159°
22°
21° 40'
158°20'
158°
157°40'
21° 20'



MOLOKAI
LANAI
MAUI
KAHOOLAWE
Keonelele Pens
Kalaupapa
Molokai AP
Kualapuu
Puuohoku Ranch
Maunaloa
Kaunakakai Mauka
Kaunakakai
Waikolu
Mapulehu
Kamalo Mauka
Nakalele Fld 60
Honolua Fld 49
Honokohua
Honokohau
Haelaau
Waihee Valley
Mahinahina
Puu Kukui
Mahana
Kahoma Intake
Waiehu Camp
Kahului WB AP
Paia
Pauwela
Haleakala
Hamakuapoko
Wahikuli
Kukui
Iao Needle
Wailuku
Spreckelsville
Kailua
Lahaina
Kauaula Intake
Olowalu
Puunene
Keahua
Lupi Upper
Waikamoi
Lanai City
Launiupoko Intake
Launiupoko Village
Waikapu
Haliimaile
Haleakala B E S
Kailiili
Keanae
Lanaihale
Olowalu Gulch
Haleakala Ranch
Paakea
Waiakeakua
Puohokamoa 2
Waikamoi Dam
Pohakea Bridge
Ukulele
Wailua Iki
Hana AP
Ukumehame
Olinda
Kaumalapau Harbor
Kihei
Kula Heights
Puu Paki
Honomanu Gulch
Twin Gates
Haleakala RS
Holua Cabin
Hana
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Paniolehulu
Polipoli Spgs
Hanahuli
Kaupo Ranch House
Ulupalakua Ranch
Kipahulu
Waiopai Rch
Auwahi
USCOMM-ESSA-Asheville, N.C.
157°
40'
20'
156°
21°
20° 40'


HAWAII
HAWAII
PLATE 2
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
Kohala Mission
Hawi
Kiulii
Kohala Mauilli
Puuokumau
Honokane Nui
Waikanonoula
Kehena
East Honokane
Middle Pen
Kukuihaele Mill
Kukuihaele Hlc
Haina
Pauahau
Kawainui Lower
Kiolaeo Lower
Pauillo
Kukaiau
Ookala
Mauna Kea Beach
Lalamilo Field Office
Kamuela
Kamuela Airport
Puukoo
Umikoa
Honoohina
Hakalau
Halepiula
Puu Mali
Puu Klhe
Keanakolu Camp
Puu Laau
Honomu Mauka
Pepeekeo Makai
Papaikou Mauka 140.1
Papaikou
Halepohaku
Pohakuloa 107
Puu 82
Pihonua
Klpa
Hilo WB AP
Saddle Road 1
Kaumana
Puu Waawaa
Huehue
Huslalai
Lanihau
Walakea SCD
Kona Airport
Holualoa
Ahua Umi
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Mountain View
Puu Lehua
Kulani Camp
Mauna Loa Slope Obs
Kainaliu
Kaawaloa
Keakakekua
Napoopoo
Honaunau
Pahoa
Kapoho Landing
Lava Tree Park
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 67.8
Naulu Forest
Kapapala Ranch
Opihihalo 2
Keaiwa Camp
Pahala
Moaula
Kahiawai
Manuka
Keals iki
Kiolakaa A + F
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1 2

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
SEPTEMBER 1970
Volume 66 No. 9

CLEMSON UNIVERSITY LIBRARY
JAN 22 1971
S.C. TECH. & AGR. DEPT.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days: Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days: .10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																								
ANAHOLA 1114	A														1.38	- .75	.30	1	.0	0		0	0
KANALOHULUHULU 1075		72.4	55.1	63.8		78	1	44	27		0	0	0	0	2.80		.66	30	.0	0	7	1	0
KAPAA STABLES 1104	A														1.95		.35	2	.0	0		0	0
KILAUEA FIELD 17 1135	A														3.54	- 1.74	.57	30	.0	0			0
KILAUEA POINT 1133		83.5	74.2	78.9		92	28	69	11		1	0	0	0	1.80		.60	29	.0	0	6	1	0
KOLOA 936	A														4.44	.06			.0	0			
LIHUE WSO 1020.1	//R	85.4	74.3	79.9	1.8	87	17+	66	28		0	0	0	0	1.42	- .66	.42	30	.0	0	5	0	0
MANA 1026		87.5	67.3	77.4	- .5	92	8	64	4		5	0	0	0	6.03	5.24	3.13	12	.0	0	6	3	2
N WAILUA DITCH 1051	A														13.59				.0	0			
PH WAINIHA 1115															5.24	- .83	.63	1	.0	0	14	5	0
PUEHU RIDGE 1040															3.10		.99	13	.0	0	6	3	0
WAHIAWA 930	A														1.57	- .14			.0	0			0
WAIAHI LOWER 1054		82.2	65.8	74.0		86	28	59	28		0	0	0	0	8.25		1.23	21	.0	0	16	6	2
WAIMEA 947															1.02	.36	.45	13	.0	0	3	0	0
ISLAND				74.8											4.01				.0				
* * * ISLAND OF OAHU																							
HONOLULU OBSERV 702.2															.21		.06	8	.0	0	0	0	0
HONOLULU WSFC 703	R	86.3	71.7	79.0	- .2	88	25+	68	29		0	0	0	0	.39	- .60	.15	8	.0	0	2	0	0
KAHUKU 912	A	85.2M	71.0M	78.1M	- .1	88	28	65	30+		0	0	0	0	1.58	- .27			.0	0		0	0
KANEOHE MAUKA 781		82.9	70.6	76.8	.0	85	30+	66	29		0	0	0	0	3.49	- .32	.79	20	.0	0	10	2	0
KOOLAU OAM 833															*		4.02	18	.0	0		10	4
LUALUALEI 804		87.2	72.1	79.7		90	29	67	30+		1	0	0	0	.87		.59	11	.0	0	1	1	0
MAKAPUU POINT 724		80.0	70.6	75.3		83	30+	69	26+		0	0	0	0	.73	.02	.20	8	.0	0	3	0	0
NUUANU RES 4 783															5.98	- 2.55	.90	19	.0	0	16	5	0
OPAEULA 870	A	81.7	65.0	73.4	.2	86	30+	62	30+		0	0	0	0	3.01	.57	.58	18	.0	0	11	1	0
PALOLO VALLEY 718															6.28	- 2.15	1.48	20	.0	0	15	3	2
PRI WAHIAWA 820.2	A	85.9	65.1	75.5		89	30+	60	30		0	0	0	0	1.20				.0	0			0
PUNALUU 684	A														2.27				.0	0			0
WAHIAWA OAM 863	A														1.27				.0	0		0	0
WAIAHOLE 837	A														7.21	- 2.58			.0	0			
WAIALUA 847	A	86.4	65.9	76.2	- .1	90	12	63	30+		1	0	0	0	.45	- .34	.20	19	.0	0	1	0	0
WAIKIKI 717.2		88.3M	71.0M	79.7M		90	29+	62	30		5	0	0	0	.29		.07	19+	.0	0	0	0	0
WAIMANALO EXP FARM		85.6	71.9	78.8		87	28+	64	29		0	0	0	0	1.02		.44	8	.0	0	3	0	0
WAIPAHU 750	A														.40	- .68	.14	9	.0	0		0	0
ISLAND				77.3											2.16				.0				
* * * ISLAND OF MOLOKAI																							
KUALAPUU 534	A														.32	- .46			.0	0	0	0	0
MAPULEHU 542															2.07	- .53	.32	7	.0	0	8	0	0
MAUNALOA 511	A														2.07	.96	.81	11	.0	0			0
MOLOKAI AP 524		83.4	70.5M	77.0M		85	25+	65	30		0	0	0	0	.13		.06	3	.0	0	0	0	0
ISLAND				77.0											1.15				.0				
* * * ISLAND OF LANAI																							
LANAI CITY 672	A	78.6	64.5	71.6	.1	84	28	57	18		0	0	0	0	.37	- 1.90			.0	0		0	0
ISLAND				71.6											.37				.0				
* * * ISLAND OF MAUI																							
HALEAKALA 8 E S 434	A														2.95	.65	.95	18	.0	0	10	1	0
HALEAKALA RS 338		62.5	43.1	52.8		66	18+	38	25		0	0	0	0	.80		.10	1	.0	0	1	0	0
HANA AIRPORT 355		84.3	68.9	76.6		86	30+	65	25		0	0	0	0	3.98		.45	19	.0	0	13	0	0
HONOKOHUA 493	A														1.73	.05			.0	0			0
KAANAPALI AIRPORT		85.5	69.5	77.5		87	28+	65	25		0	0	0	0	.36		.19	18	.0	0	1	0	0
KAHULUI WSO 398	R	87.7	68.3	78.0	- .4	90	11+	62	26+		2	0	0	0	.44	.19	.19	19	.0	0	1	0	0
KAILUA 446		78.7	66.8	72.8	- .5	81	14	65	28+		0	0	0	0	8.21	.71	1.27	20	.0	0	18	4	3
KEANAE 346	A														11.30	- .93			.0	0			
KIPAHULU 258															4.92	- 1.93	.64	18	.0	0	13	4	0
KULA SANATORIUM 267		74.3	58.1	66.2	- .3	79	5	56	16		0	0	0	0	3.13	1.16	2.01	12	.0	0	5	1	1
LAHAINA 361		87.5	69.2	78.4		91	3	67	15		2	0	0	0	.00	- .29	.00		.0	0	0	0	0
PAIA 406															1.72	.44	.53	18	.0	0	7	1	0
WAILUKU 386		82.6M	71.8M	77.2M	- .6	84	28+	69	30+		0	0	0	0	.14	- .46			.0	0	0	0	0
ISLAND				72.4											3.05				.0				
* * * ISLAND OF HAWAII																							
HAINA 214		83.1	66.7	74.9	.4	85	30+	64	30		0	0	0	0	2.08	- .21	.50	4	.0	0	7	1	0
HAWAII VOLCNS NP HQ 54		70.6M	54.7M	62.7M	- .6	74	13	51	12		0	0	0	0	4.57	- .52	.85	18	.0	0			0
HILO WSO 87	R	83.4	66.2	74.8	- .7	86	30+	61	30		0	0	0	0	5.61	- 2.89	.75	17	.0	0	16	3	0
HUEHUE 92.1	A														2.07	- 1.16			.0	0			0
KAINALIU 73.2		79.4	63.7	71.6		82	20+	61	11		0	0	0	0	5.68	- 1.92	1.79	30	.0	0	10	3	2

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature													Precipitation									
										No. of Days								Snow, Sleet			No. of Days		
										Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191		75.1	54.7	64.9		80	28	47	25		0	0	0	0	.11		.03	19+	.0	0		0	0	0
KEAAU 92		81.8	66.0	73.9	- 1.0	83	30+	62	30		0	0	0	0	5.36	- 3.69	.68	18	.0	0		20	2	0
KEALAKEKUA 26.2		79.5	64.5	72.0		81	14+	62	11		0	0	0	0	4.43		1.07	30	.0	0		9	4	1
KONA (KAILUA) 68.3		85.7M	70.7M	78.2M		87	28+	68	21		0	0	0	0	3.70		1.06	16	.0	0				1
KUKUIHAELE HIC 199															2.06	- .73	.51	22	.0	0		7	1	0
KULANI CAMP 79		64.9	49.6	57.3		77	24	42	30		0	0	0	0	4.74		.45	28	.0	0		18	0	0
PAHALA 21		81.4M	62.9M	72.2M	- 1.5	83	18+	61	30+		0	0	0	0	3.01	.48	.92	29	.0	0			1	0
POHAKULOA 107	A														.68				.0	0				0
PUAKO 95.1	A	88.0	71.2	79.6		90	29+	68	30+		8	0	0	0	.33		.20	15	.0	0		2	0	0
PUU WAAWAA 94.1	A														.78	- 1.55			.0	0			0	0
UMIKOA 118															1.61	- .55	.30	23	.0	0			0	0
WAIAKEA SCO 88.2															11.25				.0	0				
ISLAND				71.1											3.42				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93° ON THE 7+ AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 31° ON THE 14TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 14.01 AT WAIKAMOI DAM 36, MAUI

LEAST TOTAL PRECIPITATION: .00 AT 9 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.02 ON THE 18TH AT KOOLAU DAM 833, OAHU

See Reference Notes Following Station Index

DAILY PRECIPITATION

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	1.38	.30	.13			*	*	*	.25			.03	*	*	.02	.22	.05	.17		*	*	.05		.05	.11							
BRYDESWOOD STA 965	A	3.02	.24	.37	.02	.01	*	*	*	.40	.04	.03		*	*	.01	.08	.02	.17	.65	*	*	.67	.02	.14	.06				.03	.05	.01	
EAST LAWAI 934	A	4.43	.24	.61	.05	.02	*	*	*	.61	.53	.10	T	*	*	.09	.17	.04	.06	.33	*	*	.81	.11	.16	.12	.02	*	*	.31	.05	T	
ELEELE 927	A	.68	.02	.14			*	*	*	.11		T		*	*	T	T		.05	.12	*	*	.22		.01	T		*	*	.01			
HALAULA 1110	A	1.81	.35	.17			*	*	*	.35	.04		.04	*	*	.03	.28	.10	.06		*	*	.15		.09	.10		*	*	.05			
HALENANAHO 1006	A	4.83	.17	.48	.09	.18	*	*	*	.53	.11	.46	.04	*	*	.28	.32	.17	.14	.45	*	*	.94	.09	.19	.08	.02	*	*	.02	.07			
HUKIPO 945		.69												.39	.13																.17		
LILIUULA INTAKE 1050	A	11.34	.94	1.33	.12	.10	*	*	*	1.30	.87	.05	.02	*	*	.26	1.04	.10	.35	1.13	*	*	2.93	.14	.17	.09	.04	*	*	.26	.06	.04	
INTAKE WAIWIHA PC 1086	A	8.79	*	*	*	1.42	*	*	*	1.45	*	*	*	*	*	1.15	*	*	2.70	*	*	*	1.70	*	*	*	.37	*	*	*	*	*	
KALIHIWAI RES 1131	A	4.76	.60	.30	.05	.02	*	*	*	.65	.02	.30	.05	*	*	.03	.36	.42	.11	.25	*	*	.77	.10	.14	.21		*	*	.07		.31	
KANAIOHULUHULU 1075		2.80	.15	.04			.04	.09	.07	.33				.41	.05			.03	.32	.24	.09			.13		.03		.03	.03		.06	.66	
KANEHA RESERVOIR 1092	A	4.29	.50	.40			*	*	*	.40	.16	.20	.25	*	*	.25	.35	.45	.15	.05	*	*	.45	.15	.15	.18	.05	*	*	.15			
KAPAA STABLES 1104	A	1.95	.32	.35		.02	*	*	*	.30	.01	.02		*	*	.14	.08		.05		*	*	.32	.05	.05	.02		*	*	.20		.02	
KEALIA 1112	A	1.61	.15	.21		.02	*	*	*	.23	.02			*	*	.10	.20	.02	.06	.02	*	*	.13		.15	.05		*	*	.20		.05	
KEKAHA 944		.91												.36	.46													.06			.03	
KILAUEA 1134	A	2.87	.40	.06		.05	*	*	*	.38		.25	.19	*	*	.06	.27	.01	.05		*	*	.13	.04	.02	.06		*	*	.03		.87	
KILAUEA FIELD 17 1135	A	3.54	.37	.11	.01		*	*	*	.52	.01	.42	.05	*	*	.06	.16	.23	.03	.08	*	*	.36	.13	.17	.17	.01	*	*	.08		.57	
KILAUEA POINT 1133		1.80			.03	.14	.12	.04			.08	.05	.01	.01	.01	.21		.11	.01	.02	.09	.07	.10		.07		.03			.60		
KOLO 1033		1.04		.13											.38								.23					.03			.27	
KOLOA 936	A	4.44	.09	.37		.11	*	*	*	.63	.15	.12	.08	*	*	.20	.12	.08	.04	.15	*	*	1.32	.17	.32	.30	.04	*	*	.04	.11		
KOLOA MAUKA 994	A	6.79	.63	.49	.09	.19	*	*	*	.53	.48	.19	.05	*	*	.17	.35	.15	.15	.86	*	*	1.89	.08	.16	.14	.02	*	*	.04	.10	.03	
KOLOKO RES 1137	A	4.39	.44	.05	.10		*	*	*	.69		.45	.19	*	*	.04	.55	.20	.15	.11	*	*	.69	.05	.10	.10	.01	*	*	.24		.23	
KUKUIULA 935	A	3.16	.10	.55	T	.10	*	*	*	.64	.04	.19		*	*	.22	.05	.06	.01	.16	*	*	.58	.02	.14	.14	.01	*	*	.13	.02		
LIHUE VARIETY STA		3.46	.32	.42	.15	.09	*	*	.16	.03	.04	.19	.15	.15	*	.12	.26	.12	.13	.15	.02	.38	.05	.06	.25	.16	.05	*	*	.01			
LIHUE 1020	A	2.04	.29	.03	.02	.07	*	*	*	.17	.03	.30	.07	*	*	.18	.12	.10	.05	.05	*	*	.14	.05	.13	.09	.01	*	*	.14			
LIHUE WSO 1020.1 //R		1.42	.07	T	T	.03	.04	.02	T	T	.23	.01	.05	T		.02	.13	T	.02	.03	.13		T	.03	T	.10		.09			T	.42	
MAKAHUENA POINT 940.1		-	.05				.15	.04		.01	.03	.07		.08	-	.06	.07	.01	.14	.14	.08	.12	.01		.02	.05	.04						
MAKAWELI 965	A	.55	.07																.04	.03	.03	.01									.37		
MANA 1026		6.03		.23									.52	3.13									.23				1.75				.17		
MOHIHI UPR CROSS 1083	A	-	.25	.08			.08	.16	.08	.16			.08	.08			.08	.16	.16	.57	.16		-	-	-	-	-	-	-	-	-	-	
MOLOAA 1145	A	.91	.33				*	*	*	.28			.04				.12	.01	.04		*	*	.04			.05							
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035		9.09		.25										1.53	3.65								1.20						1.40		1.06		
N WAILUA DITCH 1091	A	13.59	1.00	1.40	.35	.10	*	*	*	1.20	.50	.30	.20	*	*	.56	1.10	.36	.25	.80	*	*	3.90	.46	.40	.30	.10	*	*	.31			
PH WAINIHA 1115		5.24	.63	.32	.02	.01	.05	.31	.22	.21	.01	.30			T	T	.32	.07	.19	.50	.57	.35	.01	.01	.50	.13					.01	.50	
PRINCEVILLE RANCH 1117		2.37	.53	.05			.10	.12	.21	.18	.10	.43			.03			.02		.15	.02	.05	.07	.08	.02						.21		
PUEHU RIDGE 1040		3.10												.75	.99								.10	.07				.65	.13		.41		
PUHI 1013	A	3.54	.34	.16	.03	.03	*	*	*	.26	.02	.61	.28	*	*	.18	.38	.24	.08	.07	*	*	.44	.04	.17	.09	.03	*	*	.03	.06		
RESERVOIR 6 1004	A	5.07	.47	.38	.06	.07	*	*	*	.66	.15	.54	.04	*	*	.11	.38	.15	.09	.47	*	*	.93	.10	.27	.12		*	*	.03	.05		
WAHIAWA 930	A	1.57	.07	.27	.01	T	*	*	*	.56	.01	T		*	*	.03	.02	T	.16	.25	*	*	.16	T	.02	.01							
WAHIAWA MOUNTAIN 990	A	9.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.13	
WAIAHI LOWER 1054		8.25	.78	1.05	.08	.02	.09	.02	.23	.09	.46	.23	.09	.05	.02	.04	.60	.08	.11	.40	.82	.93	1.23	.17	.14	.26	.01	.10	.11		.04		
WAIAHI UPPER 1052		9.63	.81	.91	.21	.02	.51	.20	.26	.18	.88	.18	.03	.07	.05		.60	.15	.15	.45	*	*	3.43	.10	.23	.15	.03				.01	.02	
WAIAWA 943		1.83												.66	1.08								.02				.05				.02	
WAILUA KAI 1065	A	2.47	.25	.50	.09	.08	*	*	*	.09	.05	.09	.12	*	*	.50	.22	.04	.05		*	*	.11		.07			*	*	.21			
WAIMEA 947		1.02												.36	.45																.21		
WEST LAWAI 931	A	2.83	.12	.41	.02	.01	*	*	*	.78	.10	.08		*	*	.12	.05	.01	.04	.24	*	*	.40	.03	.05	.13		*	*	.22	.02		
* * *																																	
ISLAND OF OAHU																																	
BERETANIA PUMPING STA		1.06	.09	.01	T	T	.03	.01	.07	.08		T				.03	.09	.23	.11	.05	.13	.12	T	T	.01	T							
CAMP 84 807	A	.70	*	*	*	.02	*	*	*	.38	*		.07				*	*	.03	*	.04	*	.16							*	*		
CHURCH COLLEGE LAIE		2.41	.08			.02	.04	.04	.03	.05		.05	.03	.10		.02	.01	.01	.04	.21	.24	.09	.13	.38	.02	.10			.05	.65	.01	.01	
COCONUT ISLAND 840.1		2.23	.05				.07	.04	.43						.10		.03	.20		.04	.30		.17	.11			.01			.68			
EWA PLANTATION 741		.25	.02				.01		.06	.04								.07		.04			.01									
HELEMANO INTAKE 881	A	3.59	*	*	.52	*	*	*	*	.95	*	*	*	*	*	*	.24	*	.56	*	*	*	1.28	*	*	.04	*	*	*	*	*	*	
HOKULOA 725.2	A	.83	*	*	*	*	*	.13	*	.39	*	*	*	*	*	*	.06	*	*	*	*	*	*	*	*	*	*	*	*	*	.25	*		
HONOLULU OBSERV 702.2		.21						.03		.06	.04							.02	.03	.02						.01							
HONOLULU WSFC 703	R	.39	T	T	T	T	T	.05	T	.15	T	T			.02	T		.14	T	.02	T	.01			T								
HONOLULU SUBSTA 704		.83	.06							.14						.09		.28		.10	.08	.03									.05		
H S P A EXP STA 707		1.21	.15		T	.04	.01	.08	.02	.07	.02					.02	.10	.24	.10	.10	.14	.11	.01	T	T								
KAHANA 883	A	15.36	*	*	*	*	*	*	*	*	5.80	*	*	*	*	2.80	*	*	*	*	*	*	5.40	*	*	*	*	*	*	1.36	*	*	
KAHUKU 912	A	1.58	.08			.01	*	*	*	.22	.08			*	*	.26		.03	.03	.10	*	*	.14	.05	.15	.03		*	*	.40			
KAILUA FIRE STA 791.3		.85				T	.08	T		.40	.01	.01				.01	.01	.09	.02	.09	.03	.07		.01	.01						.01		
KALIHI RES SITE 777		5.42	.22			.02	.28	.34	.12	.72		.18	.02	.06	.18	.16	.02	.16	*	*	*	*	*	2.62	.18	.02	.08	.04					
KANEOHE MAUKA 781		3.49	.29				.01	.13	.20	.62	.06	.02	.26	.15	.07		.11	.07	.06	.31	.07	.79	.05	.10	.04	.01	.01	.06					
KANEOHE RANCH 838	A	2.63	.13				T	*	*	.85	.04	.03	.07	T	*	.22	.01	*	.35	.18	.10	*	.20	.20	.20	T	T	T	*	.05	T	T	
KAPALAMA 773	A	3.11	.80	.18			*	*	*	.77				*	*	.10		.39			*	*	.67										
KAWAIHAPAI 841	A	.59					*	*	*	.13	.05			*	*	T		.01	T	.02	*	*	.37			.01							
KAWAI IKI INTAKE 880.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KEMOO CAMP 8 855	A	1.20	.03		.02	.01	*	*	*	.12	.01			.50			.02	.10	.10	.05	.12	*	.09			.02		*	*	.01			
KODLAU OAM 833		*	.06	1.65	.13	.39	.70	.38	.56	.98	.02	.07	*	*	.04	.61	.37	.28	1.16	4.02	1.08	.34	.59	.67	.29	.07	.05	.01	*	*	*	*	
LUALUALEI 804		.87					*	*	*	.06	.04	.06	.59	*	*	.01			.03		*	*	.05				*	*	*	.03			
LUALUALEI WTR TUNNEL	A	1.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.55	*	*	*	*	*	
LUNALILO HOME 724.2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAHA KAI 796.1	A	.22	T					T	.05	.03			T			T		T	T	T		.14											
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		.73	.14			.03		.04		.20	.01		.02			.08		.02			.02	.03	.01		.03	.10							
MANOA 712	V	8.37	.42				.14	.32	.26	.14	.10				.30	.21	.41	.19	.37	.35	.30	.55	.21	.05									
MANOA TUNNEL 2 716		7.48	.36			.04	.28	.14	.14	1.16	.02	.42	.02		.06	.56	.10	.48	.40	.44	1.10	1.12	.10	.26	.16	.08		.02	.02				
MOANALUA 770		1.50	.24	.06	.02	.01	*	*	.21	.11	T				*	.18	.01	.14	.04	.19	.14	.10			.05								
NUUANU RES 4 783		5.98	.14			.04	.26	.38	.10	.82		.16		.12	.12	.16		.52	.20	.68	.90	.70	.24	.24	.08	.06	.04			.02			
NUUANU RESERVOIR 5 775	A	4.43	.30	*	.13	.04	*	*	*	1.20	*	.04	.04	*	*	.22	.13	.22	.09	.51	*	*	1.25	.09	.12	.05	T						
OPAEULA 870	A	3.01	.33	.11	.08	.05	.01	.45	.16	.12	.02	.01		.01		.01	.04	.21	.11	.58	.40	.12		.03	.02	.04	.10						
PALOLO VALLEY 718		6.28	.36				.14	.14	.14	1.10	.04		.14	.04	.08	.36	.08	.20	.14	.38	.60	1.48		.32	.12		.34	.08					
PAUOA FLATS 784		9.62	.52	.06	.04		.48	.54	.22	1.24	.02	.18	.10	*	.28	.30	.08	.48	.54	1.14	1.36	.94	.32	.44	.20	.14							
PORTLOCK ROAD 724.4		.04					.01				.01										.01									.01			
PRI WAHIAWA 820.2	A	1.20	.08		T		*	*	*	.50	.15							.01	.07	.16	*	*	.23	T									
PUNALUU 884	A	2.27	.09	.02	.03		*	*	*	.21	.06	.09	.09	*	*	.10	.11	.04	.10	.05	*	*	.88	.15	.02	.05	.10	*	*	.08			
PUNCHBOWL CRATER 709	A	1.34	.02	.01	.05	.02	.02	.01	.02	.04	.01	.01				.06	.08	.28	.19	.10	.23	.12	.04	.01		.02							
ST STEPHENS SEM 788		3.37	.18	T	.02		.02	.10	.18	.72	.08	.03	.07	.01	.07	.09	.02	.03	.37	.17	.31	.58	T	.03	.21	.05	.01			.02			
TANTALUS 2 780.5		7.13	.58	.09	.04	.08	*	*	*	1.38	.25	.04	.03		*	.25	.39	.26	.48	.85	.62	.96	.38	.25	.15	.04	.01						
UNIV OF HAWAII 713	A	1.72	.36	T			*	*	*	.28	.05			*	*	.14	.25	.16	.10	*	*	*	.30	.01	.02	.05							
WAHIAWA OAM 863	A	1.27	.09		.02	.01	*	*	*	.33	.12			.01			.02	.02	.15	.28	.08	*	.11		.02	.01							
WAIAHOLE 837	A	7.21	.54	.07	*	*	*	*	*	1.24	.88	.12	.33	*	*	.88	.15	.09	.32	.13	*	*	1.46	.24	.32	.28	.12	*	*	.04	*	*	
WAIALAE KAHALA 715		.45	.06	T			.02	.04	T	.05	.03	T			T	T		.09	.04	.03	.05	.03	T	.01	T	T	T						
WAIALUA 847	A	.45						.01		.06	T							.01	T	.02	.20	.06	.06			.03							
WAIANAE 798.2	A	.45								.13	.04	.27	.01						T														
WAIANAE MAUKA 803	A	2.57	*	*	*	*	*	*	*	*	1.23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.34	*	*	*	
WAIAWA 836	A	9.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.70	
WAIKANE 885	A	7.16	*	*	*	*	*	*	*	3.10	.36	*	*	*	*	1.10	*	*	*	*	*	*	1.92	*	*	*	*	*	*	.68	*	*	
WAIKIKI 717.2		.29						.01		.07	.01							.06	.02	.02	.07	.01		T		.02							
WAIMANALO EXP FARM		1.02	.07							.44	T							.18	.01		.04	.03	.20	.02		.03						
WAIMEA 892	A	1.94	.14	.09	.08	.05	*	*	*	.48							.12	.13	.13	.47	*	*	.18	.04	.02	.01							
WAIPAHU 750	A	.40	.01	*	*	*	*	*	*	.10	.14	*	*	*	*	.03	*	*	.04	.04	*	*	.03	*	.01	*	*	*	*	*	*	*		
WILHELMINA RISE 721		1.72	.08				.08	.10	.02	.20	.02	.02				.10	.16	.32	.02	.14	.22	.06	.04	.04	.08	.02							
* * *																																	
ISLAND OF MOLOKAI																																	
KALAIPAPA 563	A	1.29	.13	.35	.12	*	.08	.42	.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.06	*	*	*	*		
KAUNAKAKAI 536	A	.00																															

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KE NELELE PEAS 551	A	.00														.03				.01	*	*	.06		.04								
KUALAPUU 534	A	.32			.04		.05		*	.09					.10	.16	.20			.15	.29	.02	.03		.03	.01					.09	
MAPU EHU 542		2.07	.08	.08		.18			.32		.07	.03			*	.57	.03		.23	.15	*	*	.20	.02				*	*	.33			
MAUNALOA 511	A	2.07			T		*	*	*	.01	.02	.08	.81	*			.02			T	.05											
MOLOKAI AP 9.4		.13			.06				T																							
PUUOHOKU RANCH 542.1		1.05	.03	T	.01	T	.01	T	.03	T	.02	.03	.01			.02	.12		.17	.46		.03	.11	T		T			T				
WAIKOLU 540	A	5.06	2.06	*	*	*	*	*	*	1.12	*	*	*	*	*	*	.15	*	*	*	*	*	*	1.73	*	*	*	*	*	*	*	*	*	
* * *																																	
ISLAND OF LANAI																																	
KANEPUU 690	A	.02											*	*	*	*	*	*	.01								*	*	*	*	*	.01	
KAUMALAPAU HARBOR 658	A	.03												*	*	.43	.20					*	.11	.01					.20				
LANAI CITY 672	A	.37					*	*	.05																		*	*	*	*	*	.62	
LANAIHALE 684	A	.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	
MAHANA 694	A	.01																															
MALAUEA 676	A	.25											*	*	*	*	*	*	.20								*	*	*	*	*	.05	
WAIAKEAKUA 665	A	.54	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.07	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.47	
* * *																																	
ISLAND OF MAUI																																	
ALWAHI-252	A	1.47														.20									I.02					.25			
HALEAKALA 8.E.S 434	A	2.95	.04	.21	.12	.09	.29	.07	.11	.05						.02	.10	.03	.30	.95	.21	.11	.02	.04					.19				
HALEAKALA RANCH 432	A	.49	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.25	.24	*	*	*	*	*	*	*	*	*	*	*	*	
HALEAKALA RS 338		.80	.10	.07	.04	.02				.01		.01			.07	T	.08	.04	.01	.09	.08	.06	.01	.05	.04			T	.02	T			
HALEAKALA SUMMIT 338.4		.56			.02									*	*	.14	.14			.02	*	*	.24									
HALIIMAILE 623	A	1.28	.02	.14	.07	.08	.03	*	*	.10							.09	.03	.15	.32	.19	*	.02										
HAMAKUAPOKO 485		3.17	.09	.05	.08	.24	.15	.17	.26	.06							.35	.02	.06	.34	.37	*	.18	.26	.11	.11				.39			
HANA 354		3.93	.15	.19	.15	.03	.30				.39	.03	.01	.02	*	.47	.37	.06	.16	.06	.45	.34	T	.34	.16	.04	T	.05	T		T		
HANA AIRPORT 355		3.98	.27	.15	.15	.05	.28	.03	T	.32	.25	.03	.19	.09	.08	.06	.37	.04	.15	.18	.71	.01	.02		.03							
HANAHULI 281		2.43	.30	.13	.04	T	.19	.13	T	.06	.03	T		.09	.15	.09	.07	.04	.08	.22	.25	.06			.13	.04	.06			.07			
HOLUA CABIN 259.5	A	.35	*	.28	*	*	*	*	*	*	*	*	*	*	*	*	*	.07	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
HONOKOHAU 480	A	6.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.40	
HONOKOHUA 493	A	1.73	.09	.02	.09		*	*	*	.54	.02							.04	.15	.18	*	*	.46	.10	.02	.02							
HONOMANU GULCH 341	A	4.00	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	4.00	
KAANAPALI AIRPORT		.36	.01			.01		.02	.02											.19	.02		.09										
KAHOMA INTAKE 374	A	2.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.16	
KAHULUI WSO 398	R	.44		.04	.04	T	.01		.07									.01	.07	*	.19		.01										
KAILILI 436	A	4.96	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.96	
KAILUA 446		8.21	.31	.29	.31	.30	.42	.25	.41	.28	.01	.04				.10	.06	.11	.36	1.16	1.16	1.27	.10	.68	.21		.02	.01	.33		.02		
KAUAULA INTAKE 375	A	2.06	*	*	*	*	.97	*	*	*	*	*	*	.08	*	*	*	*	*	*	.62	*	*	*	*	*	*	.39	*	*	*	*	
KEAMUA 410		.57		.02	.02	.01		.02									T		.18	.07		.07								.18			
KEANAE 346	A	11.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.30	
KEAWAKAPU BEACH 260.2		1.17												1.11			.06																
KIHEI 311		.00																															
KIPAHULU 258		4.92	.19	.45	.26			.58		.50	.08			.40		.30	.21		.20	.64	.51		.20		.34	.06							
KULA HEIGHTS 323.2		.22																														.22	
KULA SANATORIUM 267		3.13										.08	.36	2.01	.03		.13						.05	.06	.02				.05	.12		.22	
LAHAINA 361		.00																															
LAUNIUPOKO INTAKE 376	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00	
LAUNIUPOKO VILLAGE 372	A	.00																															
LUPI UPPER 442	A	8.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.50	
MAHINAHINA 466	A	1.97	.09	.05	.05		.15	.19												.10	.86	.28			.20								
NAKALELE -FLD 60-497	A	1.52	*	*	*	*	*	*	*	.19	*	*	*	*	*	.35	*	*	*	*	*	*	.77	*	*	*	*	*	*	.21			
OLINDA 332	A	.76	.02	.11	.02	.01	*	*	*	.01	T		T	*	*	*	.01	.01	.05	.17	.17	*	.05	.06	.03					.04	T		
OLOWALU 296		.00																															
OLOWALU GULCH 377	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00	
PAAKEA 350		12.37	.41	.85	.50	.45	.48	.40	.18	.31	.11	.06	.04			.11	.24	.45	.36	1.90	1.23	.73	.24	.45	.51	.05		.02	2.13		.16		
PAIA 406		1.72	.02	.05	.10	.15	.07	.10	.09	.11	T						.01		.12	.53	.03	.30		.02						.02			
PANIELIHULU 259.2	A	1.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.50	*	*	*	*	*	*	*	*	*	*	*	*	*	1.30	
POHAKEA BRIDGE 307.2	A	.00																															
POLIPOLI SPRINGS 267.2	A	3.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.20	
PUOMOKAMOA 2 343	A	43.80	*	*	*	*	*	*	*	25.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.00	
PUU KUKUI MAKAI 472	A	2.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.80	
PUUNENE 396		.13		T	T	.01				T										.03		.09											
SPRECKELSVILLE 400.2		1.01	.01	.02	.10	.07		.03	.01	.09									.03	.36	.20	.09										
TWIN GATES 261.3	A	2.52	*	*	*	*	*	*	*	*	*	1.78	.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.06	
UKULELE 333	A	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.90	
UKUMEHAME 301	A	.00																															
ULUPALAKUA RANCH 250		4.06										.67	1.85	.56		.17							.32	.12	.19		.07			.11			
WAIHOLI 364	A	.00																															
WAIEHU CAMP 484	A	.91	*	*	.09	.07	*	*	.08	*	*	*	*	*	*	*	*	*	*	.13	*	.16	*	*	.22	*	*	*	*	.16	*	*	
WAIHEE VALLEY 482	A	.77	*	*	.07	.02	*	*	.14	.04	*	*	*	*	*	*	*	*	*	.16	*	.34	*	*	*	*	*	*	*	*	*	*	
WAIKAMOI 449	A	9.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.30	
WAIKAMOI OAM 336	A	14.01	.21	.56	.41	.26	*	*	*	1.81	.06	.17	.04	*	*	.56	.16	.16	.63	2.93	*	*	1.55	.62	.32	.03	.01	*	*	3.51	.01	T	
WAIKAPU 390	A	.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.08	*	*	*	*	*	*	*	*	*	*	
WAILUKU 386		.14	.01		.02	.01	*	*	*	.01										.02	*	*	.07							T			
WAIOPAI RANCH 256	A	.25												*	*	.19	*	*	*	.06											*	*	
* * *																																	
ISLAND OF HAWAII																																	
AMUA UMI 75	A	.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.60	
AWINI 182.1	A	7.12	*	*	1.81	*	*	*	*	1.02	*	.90	*	*	*	*	*	*	*	*	*	*	2.09	*	*	*	*	*	*	*	1.30	*	
EAST MONOKANE 183.2	A	4.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.86	
HAINA AIRPORT		2.08	.02	.09		.50	.20				.02							.05	.10	.33	.13	.14		.42	.04	.03				.01			
HAKALAU 142		7.23	.29	.54	.07	.25	.24	.13	.35	.42	.18	.01	.03				.01	.82	.52	.79	.19	.15		1.32	.57	.06		.15	.12	.02			
HALEMAUMAU 52	A	.68	*	*	*	*	*	*	*	.13	*	*	*	*	*	.06	*	*	*	*	*	.17	*	*	*	*	*	*	*	.21	*	.11	
HALEPIULA 117	A	1.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.25	
HALEPOHAKU 111	A	.93											.04							T				.33	.43				.13		T		
HAWAII VOLCNS NP HQ 54		4.57	.09	.32	*	.56	.27	.09	.02	.05	.05	.04	T	.10	.05	.03	.14	.06	.08	.85	.32	.17	.13	.19	.31	T	T	.05	T	.45	.09	.06	
HAWI 168	A	2.11	.04	.11	.02	.08	*	*	*	.33							.03	.03	.07	1.27	*	*	.09	.03	.01								
HILO COUNTRY CLUB 86.6		9.65	.20	.15	.80	.94	.33	.10	.04	.03		.02			.19		.20	.19	.30	1.30	.30	.16	.11	.74	.14	.36	.60	.30	.40	.60	1.15		
HILO WSO 87	R	5.61	.09	.58	.18	.61	.02	.36	.29	.10	.08	.01	.04	T	.11	.06	.05	.37	.75	.13	.24	.01	.48	.25	.33	.06	.25	.05	.11	T			
HOLUALOA 70	A	8.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.04	*	*	
HOLUALOA BEACH 68	A	5.42													2.50			.40	.22		.27		.11	.22			.90		.10		.70		
HONAUNAU 27		9.25	.87	.11	.10	.12	.06	.04	.05	.10	.20	.08	.27	.15	.30	.42	.29	.50	.94	.10	1.10	1.24	.10	.04	.12	.10	.44	.05	1.15	.09	.03	.09	
HONOHINA 137		6.64	.22	.50	.01	.68	.50	.07	.26	.16	.07					.03	.07	.33	.45	.44	.11	.31		1.30	.41	.22		.20	.27	.03			
HONOKANE 181.1	A	5.49	*	*	*	*	*	*	*	*	*	*	*	*	2.04	*	*	*	*	*	*	*	*	*	3.45	*	*	*	*	*	*	*	
HONOMU MAUKA 138		9.28	.36	.69	.20	.56	.64	.08	.14	.10	.10		.19	.01	.05	.34	.11	.36	.42	1.01	.33	.57		1.32	.32	.18		.34	.58	.12	.08		
HONUAULA 71	A	3.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.06	*	*	
HUALALAI 72	A	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.70	*	*	
HUEHUE 92.1	A	2.07	*	*	*	*	.05	*	*	*	*	.93	*	*	*	.18	*	*	*	*	*	.12	*	*	*	.04	*	*	*	*	.67	.08	
KAALA IKI 12	A	2.53						.07	1.11	.04	*	*	.08								.05		.15	.11	.03		.13	.01		.15	.60	T	
KAAWALOA 29	A	4.01	T	.07			*	*	*	.08	.03	.21	.02	*	*	.11	T	T	.13		*	*	.56	T	.06	.10	1.00	*	*	.02	.52	1.10	
KAINALIU 73.2		5.68		.13	.08		.02	.05		.04	.11	.10	.01	T		.57	.01	.07	.22		.02	.04	.07	.13	.35	.05	1.32			.07	.43	1.79	
KALAPANA NO 1 67.8		1.86	.32	.23	T	.02	.05	.01	.01	.03			.01	.06	T		.09	*	*	.38	T	.06	.06	.12	T	.09	T	T	.29	.02	.01		
KAMAOA NO 2 5	A	2.09	*	*	*	*	.52	*	*	*	*	*	*	*	.91	*	*	*	*	*	*	.55	*	*	*	*	*	.11	*	*	*	
KAMUELA 192.2		.38				.04	.02	.10	.04													.05			.07	.03	.01						
KAMUELA AIRPORT 191		.11	T			.02	T	.03	.01	T			T	T						.02		.03		T	T							
KAPAPALA RANCH 36	A	2.01	*	*	*	*	*	*	*	*	*	*	*	*	.60	*	*	*	*	*	*	*	.69	*	*	*	*	*	.72	*	*	*	
KAPOHO LANDING 93.5	A	7.10	*	*	*	2.88	*	*	*	*	*	*	1.32	*	*	*	*	*	*	1.76	*	*	*	*	*	*	1.14	*	*	*	*	*	
KAWAINUI LOWER 193	A	11.66	*	*	*	3.39	*	*	*	*	*	*	1.16	*	*	*	*	*	*	1.80	*	*	*	*	*	*	3.31	*	*	*	*	*	
KEAAU 92		5.36	.27	.36	.21	.41	.30	.10	.11	.30	.05	.01	.11	.01		.11	.10	.15	.20	.68	.27	.20	.07	.30	.34	.09	.01	.18	.04	.17	.01		
KEALAKEKUA 26.2		4.43		.07	.01	T	T	.02		.16	.09	.51	.01			.26	T	.05	.15		.01	.01	.68	.75	T		.05	.29	1.07				
KEHENA 181.2	A	2.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.08	.16	.75	T		.05	.29	1.07	
																																2.82	

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
WIOLAKAA A & F 6	A	12.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.60	
KIPA 89.2	A	10.19	.23	.47	.51	.72	.47	.08	.01	.11	.21		.15	.03	.34	.02	.23	.29	.32	1.72	.43	.40		.91	.09	.09	.02	.14	.17	1.68	.35		
KOHALA 179.1	A	2.26	.03	.12	.02	.16	*	*	*	.46	.01						.02	.22	.35	.78	*	*	.14	.04	.01							
KOHALA MAULILI 176	A	3.57	.02	.17	.01	.51	*	*	*	.57	.01							.17	.43	1.36	*	*	.25	.04	.02	.01						
KOHALA MISSION 175.1		2.53	.02	.11	T	.16	.16	.13	.24	.10	T	T					.02	.25	.16	.98	.05	.05	.01	.08	.01							
KUIAKE LOWER 196	A	6.45	*	*	*	3.74	*	*	*	*	*	*	.62	*	*	*	*	e	*	1.14	*	*	*	*	*	*	.95	*	*	*	*	*	
KONA (KAILUA) 68.3		3.70		T			*	*	*	.09				*	*	.59	T	1.06	T	.56	*	*	T	.16	.41						.63	.20	
KONA VILLAGE 93.8		1.87											1.30									*	.32									.25	
KUKAIAU 222		3.13	.02	.08	.04	.15	.35	.07	.01		.02							.02	.20	.46	.13	.33		1.20	.03	.02							
KUKUIHAELE MIC 199		2.06				.36	.28						.01				.08	.02	.26	.22	.12	.10		.51	.05	.05							
KUKUIHAELE MILL 206	A	1.85		.05	.04	.27	*	*	*	.43	.05	.02					.06		.11	.20	*	*	.19	.37	.06							
KULANI CAMP 79		4.74	.14	.29	.15	.40	.30	.22	.05	.02	.02	.01		.38	.28	.01	.13	.08	.07	.08	.31	.25	.11	.20	.33	.05	.03		.10	.45	.12	.16	
KULANI MAUKA 76	A	.92	.02	.23									.07	.03		.02			.13	.11	.01		.03	.27									
KULANI SCHOOL SITE 78	A	5.41	*	*	*	*	2.15	*	*	*	*	*	*	.48	*	*	*	*	*	*	1.58	*	*	*	*	*	*	1.20	*	*	*	*	
LANIHAU 68.2		7.99		.43										.15		.67		.81					.62	.31	.71					.14	1.62	2.53	
MANUKA 2	A	1.93	.01				*	*	*	.15	.11	.69	.03	*	*	T	.15	T			*	*	.35	T			.04	*	*	.14	.06	.20	
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUNA LOA SLOPE OBS		.11																						.07	.02				.02				
MIDDLE HOLUALOA 68.1	A	6.16	*	*	*	*	*	*	*	*	*	*	*	*	2.50	*	*	1.70	.31	*	*	*	.11	.11	*	*	.57	*	.26	*	.60	*	
MIDDLE PEN 147.1	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MOAULA 18	A	2.74	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.74	
MOUNTAIN VIEW 91		8.93	.18	.37	.20	.82	.55	.18	.20	.57	.15	.04	.06	.04		.27	.60	.23	.26	.92	.38	.28	.10	.66	.66	.21	.01	.41	.09	.40	.09		
NAALEHU 14	A	1.25		T								.24	.56	*	*	.01				T	*	*	.05	.02	.01		.04	*	*	.01	.31	T	
NAPOOPOO 28	A	2.69	*	*	*	*	*	*	.32	*	*	*	*	*	*	.26	*	*	*	*	*	*	.86	*	*	*	*	*	*	1.25	*	*	
NAULU FOREST 38.6		2.07				.05	.12	T	.01	.05				T	T		.32	*	*	.42		.03	.03	.03	.32	T			T	.20	.49	T	
NIULII 179	A	2.54	.05	.10	.04	.12	*	*	*	.58				*	*	.05		.37	.20	.74	*	*	.23	.06									
OOKALA 223		4.67	.03	.26	.10	.15	.33	.12		.32	.05							.02	.07	.52	.02	.30		2.26	.02	.10	T		T				
OPIHIHALE 2 24.1		4.15	.01	.06	.01	T	.11	.26	T	.76	T	.49	.01			.07	.89	.66	.01	T	T	.47	T	*	*	*	1.37	*	.10	T	.24	T	
ORCHID LAND EST 91.5	A	6.39	*	*	*	2.32	*	*	*	*	*	*	1.30	*	*	*	*	*	*	1.40	*	*	*	*	*	*		*	*	*	*	*	
PAAUMAU 217		1.61		.05	.03	.30	.20	.01										.05	.04	.29	.10	.10		.38									
PAAUILO 221		2.12	T	.03	.02	.13	.28	.05	T		T								.17	.31	.06	.16	T	.87	.01	.02		T		.01			
PAHALA 21		3.01				.01					.07	.30	.04	*	.43		.05				*	*	.32		.48		.17	*	*	.22	.92		
PAHOA 65		9.57	1.34	.77	.25	.46	.35	.12	.13	.36	.41	.03		.10		.93	.30	.37	.42	.95	.36	.26	.09	.35	.34	.15	.14	.21	.04	.20	.14		
PAKAO 37	A	4.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.58	
PAPAIKOU 144.1		7.89	.34	.72	.11	.18	.47	.07	.23	.16	.11	.07		.01	T	.77		.30	.36	.55	.21	.50	.11	.49	.08	.24	.13	.79	.01	.37	.50	.01	
PAPAIKOU MAUKA 140.1		9.10	.25	.58	.16	.37	.92	.10	.09	.33	.05	.01	T	.17	.22	.12	.03	.25	.45	.73	.38	.49	.11	.99	.11	.17	.04	.50	.06	.72	.70		
PEPEEKEO MAKAI 144		7.55	.29	.49	.04	.29	.25	.11	.13	.16	.01		.04			.29	.01	.37	.47	.98	.22	.38	.02	2.02	.22	.13	.01	.33	.10	.19			
PIIHONUA 89	A	17.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.40	
POHAKULOA 107	A	.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.68						
PUAKO 95.1	A	.33												.11		T	.20				.02			T	T								
PUU KIHE 120	A	.93	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.93	
PUU LAAU 102.1	A	.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.55	
PUU LEHUA 73	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00	
PUU MALI 113	A	.98	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.98	
PUUOKUMAU 167	A	4.03	*	*	1.57	*	*	*	*	*	*	.74	*	*	*	*	*	*	.47	*	*	*	*	*	*	1.25	*	*	*	*	*		
PUU OO 82		3.80	.05	.09	.08	.18	.04	.14	.13	T	T		.01	.10	.04	.09	.15	.02	.07	.90	.24		.13	.19	.39	.06	.13	.07	.06	.33	.04	.07	
PUU WAAWAA 94.1	A	.78												*	*	.16							.34	.03	.25						*		
SADDLE ROAD 1 84	A	13.15	*	*	*	6.00	*	*	*	*	*	*	1.15	*	*	*	*	*	*	3.70	*	*	*	*	*	*	2.30	*	*	*	*	*	
SOUTH POINT CORRAL 3	A	.41	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	*	*	*	*	*	*	*	*	*	*	
UMIKOA 118		1.61	*	.16		.25	*	*	*	.15	.05	.02						.08	.08	.05	*	*	.07	.02	.30	.07	.02		*	.28	.01		
UPOLU POINT USCG 159.2		1.22	T	.11	T	.07	.04	.01	T	.04				T					.01	.86	.05	.02				.01							
WAIAKEA SCO 88.2		11.25	.46	.34	.42	.48	.43	.13	.04	.19	.22			*	1.33		.80	.31	.36	.95	.38	.14	.11	.60	.20	.11	.04	.50	.42	1.10	.99		

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN 02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	22	0.6	6.0	18	E	30	83	72	66	78	2	10	13	3	0	0	28	50	7.1
HONOLULU, OAHU, WBFC	6	10.6	12.6	29	NE	17	75	70	55	68	12	4	2	0	0	0	18	77	5.0
KAHULUI, MAUI, WB AIRPORT	4	10.8	12.2	28	NE	02	81	73	56	74	1	7	1	0	0	0	9	79	4.0
LIHUE, KAUAI, WB AIRPORT	6	10.0	12.3	31	NE	17	78	72	63	74	9	11	5	0	0	0	25	58	5.7

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
• • •																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	78	74	74	74	73	69	74	77	75	74	73	72	73	69	74	73	67	68	71	70	72	69	74	73	73	74	74	72	73	67		72.4
	MIN	60	56	57	57	56	56	54	58	50	59	51	59	62	54	56	52	56	58	55	57	54	52	52	59	57	46	44	56	62	49		55.1
KILAUEA POINT 1133	MAX	83	83	83	83	80	81	86	82	83	83	83	81	82	82	85	83	85	81	82	81	81	82	84	85	85	81	85	92	89	88		83.5
	MIN	78	76	76	74	74	74	78	75	76	75	69	74	70	75	73	75	77	75	76	73	75	74	74	73	74	72	75	72	72	73		74.2
LIHUE WSO 1020.1	MAX	86	87	85	86	84	86	86	85	85	85	86	86	85	87	85	86	87	86	83	86	86	86	86	86	85	85	84	85	84	84		85.4
	MIN	76	78	77	77	74	75	76	77	72	76	73	73	72	77	74	76	75	74	76	77	77	77	75	73	72	72	70	66	72	69		74.3
MAKAHUENA POINT 940.1	MAX	85	86	86	83	84	83	85	85	88	86	85	84		88	88	88	86	85	85	85	84	87	84	85	85	84	85	87	89	90		85.7
	MIN	69	70	70	68	76	71	71	70	74	70	70	71		68	72	72	73	71	72	77	74	75	70	71	71	69	70	69	73	71		71.3
MANA 1026	MAX	90	85	89	91	89	86	89	92	91	90	86	84	86	87	86	85	88	89	89	88	87	85	88	89	88	87	86	87	84	85		87.5
	MIN	72	67	67	64	66	66	67	69	68	68	69	67	66	65	67	65	67	70	70	67	65	66	65	68	69	66	69	67	69	68		67.3
NIU RIDGE 1035	MAX	85	82	83	84	82	83	83	84	85	83	85	83	82	83	85	84	85	83	84	83	82	83	83	85	84	84	83	83	82	80		83.3
	MIN	64	64	65	66	65	64	63	65	66	63	63	62	64	65	66	65	63	62	64	63	62	62	63	63	63	63	64	61	60	60		63.4
WAIAHI LOWER 1054	MAX	80	80	81	81	81	83	83	83	83	83	84	84	84	83	81	81	82	79	80	79	80	81	83	83	83	84	84	86	83	83		82.2
	MIN	70	68	67	68	68	67	67	69	64	66	65	66	66	65	67	64	67	69	67	68	68	66	67	66	65	62	60	59	61	61		65.8
• • •																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	85	86	86	85	86	85	86	86	85	87	87	85	86	86	85	86	85	85	85	85	84	86	86	85	85	85	85	87	87	86		85.6
	MIN	71	72	70	70	71	70	71	70	66	66	66	67	67	69	69	68	70	71	72	69	67	69	69	69	66	65	65	65	64	64		68.3
HONOLULU WSFC 703	MAX	86	86	86	85	86	85	87	87	87	88	88	88	88	86	87	85	85	84	85	85	88	87	86	88	88	87	87	86	85	84		86.3
	MIN	73	75	74	75	73	71	72	70	70	71	71	71	71	74	75	71	72	72	72	72	72	73	72	72	70	70	71	70	68	69		71.7
HONOLULU SUBSTA 704	MAX	83	82	82	84	84	83	83	83	84	84	85	85	83	82	83	81	82	83	81	81	83	83	81	82	83	85	84	82	81	82		82.8
	MIN	74	76	75	76	74	73	74	71	73	73	74	73	74	74	75	71	73	74	71	72	73	72	72	71	72	72	72	72	70	71		72.9
KAHUKU 912	MAX	84	85	85	85				85	86	86	86			87	84	85	85	85			84	86	84	85	85			88	84	86		85.2
	MIN	73	75	73	75				72	70	72	72			70	74	73	72	72			71	71	71	71	69			66	65	65		71.0
KANEOHE MAUKA 781	MAX	83	83	82	82	83	82	82	83	83	83	84	85	84	82	83	84	83	82	81	81	81	84	83	82	84	84	83	83	83	85		82.9
	MIN	74	75	75	74	74	71	71	70	71	70	70	71	71	70	74	69	69	71	70	68	72	69	67	71	70	70	71	68	66	67		70.6
KUALUALEI 804	MAX	87	89	88	88	88	87	86	89	86	86	87	86	89	89	89	89	87	86	86	84	86	88	87	88	86	86	86	87	90	87		87.2
	MIN	75	76	76	74	76	72	76	71	68	71	70	70	72	69	75	71	71	75	75	76	72	75	76	70	72	69	68	68	67	67		72.1
MAKAPUU POINT 724	MAX	80	78	80	79	80	78	78	79	81	80	82	83	81	81	78	80	79	77	78	78	79	81	80	80	81	81	80	83	83	83		80.0
	MIN	71	70	69	70	73	70	70	70	73	70	70	73	73	71	70	69	72	70	69	70	69	72	70	69	73	69	70	70	70	72		70.6
OPAEULA 870	MAX	82	80	80	81	81	78	78	82	83	83	83	86	85	82	82	82	80	76	77	78	79	81	82	81	82	84	84	86	86	86		81.7
	MIN	68	68	68	68	68	67	67	67	64	63	63	63	63	64	66	66	65	67	66	66	65	65	66	65	62	62	62	62	62	62		65.0
PHI WAHIAWA 820.2	MAX	85	86	86	87	86	83	84	88	84	86	87	88	86	89	85	87	84	84	83	81	84	86	86	87	85	88	87	88	88	89		85.9
	MIN	67	69	67	67	67	67	68	66	65	64	63	64	64	64	68	66	67	67	68	66	65	65	66	63	64	62	63	61	51	60		65.1
WAIALUA 847	MAX	87	88	87	87	86	86	85	86	87	86	89	90	88	87	85	87	85	85	84	82	82	88	87	87	89	89	88	85	85	84		86.4
	MIN	69	67	66	66	66	67	70	68	64	64	65	66	65	67	66	66	66	68	70	68	65	66	65	65	63	64	63	64	64	63		65.9
WAIKIKI 717.2	MAX		87	85	88	88	88	88	89	88	89	90	89	90	90	88	89	89	88	87	87	87	89	89	88	88	88	88	90	90	88		88.3
	MIN		76	75	75	75	73	75	71	71	68	69	68	68	75	70	72	73	74	74	73	72	74	71	70	67	67	69	67	66	62		71.0
WAIMANALO EXP FARM	MAX	85	85	85	86	86	85	85	85	85	86	87	87	86	86	86	86	85	85	85	85	84	85	86	86	86	87	86	87	85	86		85.6
	MIN	71	75	75	75	73	74	75	71	72	75	74	72	74	74	75	70	70	73	72	73	73	73	72	71	71	70	68	67	64	66		71.9
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ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	84	84	83	83	83	84	82	83	84	83	84	83	85	84	83	84	83	83	81	83	83	84	85	83	85	84	83	83	83	83		83.4
	MIN	73	73	70	71	72	74	71	72	71	71	73	68	72	71	71	71	71	71	69		68	68	72	70	70	69		69	67	65		70.5
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ISLAND OF LANAI																																	
LANAI CITY 672	MAX	77	79	78	78	77	75	77	77	78	78	77	79	78	79	78	79	79	77	78	77	80	79	78	79	79	82	80	84	81	80		78.6
	MIN	67	68	67	66	66	66	64	67	65	67	63	65	63	66	66	62	61	57	61	64	65	66	63	67	66	64	63	63	65	61		64.5
• • •																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	65	66	62	66	62	63	63	65	65	62	64	63	59	64	62	60	60	66	62	58	62	62	61	64	63	59	60	61	64	62		62.5
	MIN	48	47	47	40	42	45	42	46	43	41	47	40	42	41	45	40	42	46	48	41	39	40	40	41	38	42	42	46	43	48		43.1
HALEAKALA SUMMIT 338.4	MAX	52	54	53	52				57	57	55	54			51	49	59	58	60			58	63	60	57	58			51	60	56		55.9
	MIN	41	39	39	40				48	43	40	37			38	38	39	44	42			44	44	42	41	41			40	49	40		41.3
HANA AIRPORT 355	MAX	85	85	85	85	86	85	85	85	84	84	85	85	84	83	84	84	82	84	84	82	85	84	82	83	84	85	84	84	80	86		84.3
	MIN	71	70	69	70	70	69	71	69	68	68	69	68	68	70	69	68	71	71	70	69	69	69	68	68	65	68	70	67	67	67		68.9
KAANAPALI AIRPORT	MAX	86	87	86	84	84	84	86	86	87	86	86	86	85	86	86	87	86	80	86	84	86	85	87	85	85	85	85	87	85	86		85.5
	MIN	70	70	72	68	72	71	72	70	68	72	69	69	69	68	67	69	72	70	72	70	68	68	72	69	65	68	70	69	67	68		69.5
KAHULUI WSO 398	MAX	90	88	87	89	88	89	87	88	87	87	90	89	89	88	89	88	84	89	87	88	89	87	86	87	86	87	88	86	87	88		87.7
	MIN	74	73	71	71	73	73	73	71	63	65	63	63	63	73	73	72	70	72	71	66	63	72	72	64	62	62	65	67	66	64		68.3
KAILUA 446	MAX	80	78	78	78	78	78	78	78	79	79	79	80	80	81	78	80	75	80	79	77	77	78	78	78	79	80	80	80	79	80		78.7
	MIN	67	69	68	67	67	68	69	68	66	67	67	67	67	66	68	67	68	67	67	67	67	66	67	65	65	65	65	65	66	66		66.8
KEAWAKAPU BEACH 260.2	MAX	91	91	93	92	91	90	93	90	90	88	85	90	89	88	87	90	91	87	90	90	89	90	86	90	90	90	89	88	92	89		89.6
	MIN	67	67	66	65	67	64	64	67	64	64	64	65	65	63	65	64	65	67	65	65	65	65	65	64	64	64	68	67	66	65		65.2
KULA SANATORIUM 267	MAX	76	77	77	75	79	73	76	77	77	72	74	73	72	75	77	75	78	74	73	75	73	71	74	73	71	72	73	72	73	73		74.3
	MIN	58	59	58	59	57	57	58	59	58	58	57	57	58	58	59	56	58	59	59	58	58	59	58	57	58	58	57	60	59	58		58.1

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	89	88	91	87	88	88	89	88	89	88	86	85	86	87	89	87	86	86	89	88	88	86	87	88	87	86	87	87	90	86		87.5
	MIN	71	69	69	70	70	68	69	70	68	69	70	69	69	69	67	68	70	72	71	69	70	68	69	69	68	68	69	69	69	69		69.2
WAILUKU 386	MAX	82	84	83	83				83	83	82	82			83	81	83	83	79			84	82	82	82	83			84	83	83		82.6
	MIN	73	73	72	72				72	73	73	73			71	74	72	72	71			70	73	73	73	70			69	70	69		71.8
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	83	83	83	83	83	83	83	84	84	84	84	85	85	84	84	84	84	79	83	82	82	82	82	82	80	83	83	85	83	85		83.1
	MIN	69	68	65	67	66	67	67	66	67	67	67	67	67	66	67	68	68	69	66	65	65	67	66	66	65	67	67	68	67	64		66.7
HAWAII VOLCNS NP HQ 54	MAX	72	69		70	68	67	70	73	72	72	73	71	74	70	71	70	70	73	68	67	71	72	68	68	71	71	73	73	69	72		70.6
	MIN	54	56		53	56	53	54	56	55	54	54	51	54	53	53	54	55	56	56	55	52	58	55	53	52	57	56	59	57	54		54.7
HILO WSO 87	MAX	83	83	83	83	84	81	82	83	83	85	85	84	84	83	83	82	81	83	81	84	84	82	82	83	85	85	86	84	86	86		83.4
	MIN	69	67	65	70	67	65	64	69	65	65	64	65	65	64	64	68	68	69	68	66	65	68	67	64	64	68	70	67	66	61		66.2
KAINALIU 73.2	MAX	79	79	78	80	79	79	80	81	80	79	80	80	82	81	79	78	78	78	80	82	78	80	80	77	80	80	78	81	79	77		79.4
	MIN	65	65	63	64	67	65	63	64	63	63	61	63	63	64	64	64	63	66	67	65	63	63	63	63	62	62	63	64	63	64		63.7
KAMUELA 192.2	MAX	72	73	73	74	73	73	69	74	75	74	75	76	78	74	74	73	73	71	73	74	72	73	74	72	75	74	76	79	80	79		74.2
	MIN	60	60	60	60	61	60	59	60	59	60	58	55	56	58	60	61	60	61	61	60	59	61	60	59	59	60	57	56	55	46		58.7
KAMUELA AIRPORT 191	MAX	74	75	75	74	74	75	71	75	75	76	75	74	77	75	76	75	75	74	71	76	75	75	75	74	76	76	75	80	78	78		75.1
	MIN	52	60	58	56	57	58	51	52	52	55	53	52	52	52	59	58	59	56	51	58	58	59	58	54	47	57	50	54	56	48		54.7
KEAAU 92	MAX	82	82	81	81	81	81	81	82	82	83	83	83	82	83	82	83	81	80	83	80	82	82	80	79	82	83	83	83	82	83		81.8
	MIN	66	67	66	66	68	66	66	67	67	66	66	65	66	66	65	65	67	67	67	66	65	65	67	65	64	64	68	69	66	62		66.0
KEALAKEKUA 26.2	MAX	79	80	79	80	79	80	81	81	77	79	81	79	80	81	79	80	79	79	80	80	79	79	79	80	80	80	78	80	80	78		79.5
	MIN	65	66	64	65	67	66	63	64	64	63	62	64	64	65	64	66	64	67	67	66	63	63	64	63	63	65	65	64	65	65		64.5
KOHALA MISSION 175.1	MAX	80	80	80	81	80	80	79	80	81	81	82	82	83	82	82	82	80	77	81	79	80	81	81	81	82	82	81	84	83	83		81.0
	MIN	69	68	68	67	68	68	67	68	67	67	68	68	68	68	69	66	67	68	68	68	68	67	67	68	64	67	68	69	69	64		67.5
KONA (KAILUA) 68.3	MAX	85	86	85	86				87	85	86	85			87	86	86	85	86			86	86	85	86	86			87	86	83		85.7
	MIN	72	72	72	72				72	70	72	72			69	71	69	72	72			68	70	69	70	69			70	70	71		70.7
KULANI CAMP 79	MAX	65	64	61	65	64	61	64	67	69	65	67	67	65	62	66	64	62	65	62	60	65	67	63	77	62	67	65	67	63	65		64.9
	MIN	53	57	48	45	57	45	44	52	51	49	47	46	48	48	48	54	51	52	53	50	46	55	52	49	44	50	48	48	55	42		49.6
MAUNA LOA SLOPE 08S	MAX	58	59	59	57	64	62	64	57	55	53	50	48	50	52	52	56	63	60	56	55	56	55	51	51	51	52	52	54	54	54		55.3
	MIN	39	38	40	40	43	43	44	40	37	37	32	32	34	31	36	37	44	44	38	36	39	37	36	34	36	36	35	38	38	39		37.8
MOUNTAIN VIEW 91	MAX	79	78	77	75	78	78	78	78	77	78	80	79	79	79	78	79	77	72	78	78	78	78	75	73	78	79	79	79	78	81		77.8
	MIN	62	63	61	61	59	59	59	59	61	60	61	59	59	59	59	59	62	63	58	58	58	58	62	58	57	58	58	58	61	55		59.5
NAALEHU 14	MAX	80	80	80	81	81	81	81	81	81	81	81	81	81	81	81	81	80	81	81	81	81	80	80	80	81	81	82	82	81	81		80.8
	MIN	70	70	68	70	70	70	70	67	66	66	68	68	68	67	68	67	68	69	69	67	67	69	66	65	66	66	69	68	67	65		67.8
OOKALA 223	MAX	81	81	82	81	81	82	80	81	82	82	82	82	81	83	81	82	81	77	84	81	81	81	81	80	81	81	82	83	80	82		81.3
	MIN	67	68	68		67	68	70	69	68	67	68	67	66	67	67	67	67	67	69	66	67	67	67	66	67	67	70	69	68	65		67.4
OPIHIHALE 2 24.1	MAX	77	76	76	79	80	79	80	76	75	79	79	83	81	75	79	75	75	79	77	76	75	78	80	80	80	80	79	76	76	78		77.9
	MIN	61	64	64	61	62	60	61	61	60	61	60	60	62	61	62	62	61	63	63	62	60	61	61	61	61	61	63	64	65	62		61.7
PAHALA 21	MAX	82	82	83	82				83	82	82	82		81	81	81	81	83	83			81	81	79	80	82			82	77	81		81.4
	MIN	64	67	63	63				62	63	62	64		63	62	63	64	64	64			61	61	63	61	62			62	64	61		62.9
PUAKO 95.1	MAX	85	87	90	90	90	89	88	90	90	89	87	87	88	88	87	87	88	87	90	90	88	86	86	89	88	88	85	87	90	86		88.0
	MIN	71	69	73	73	73	72	71	71	72	71	70	68	68	72	69	75	73	73	75	73	70	74	71	70	69	71	69	71	71	68		71.2
UPOLU POINT USCG 159.2	MAX	82	83	82	81	81	83	84	83	82	83	83	84	84	83	84	83	82	82	83	83	83	83	84	83	83	84	84	87	84	85		83.2
	MIN	71	70	71	70	71	70	73	72	70	71	70	72	71	71	75	69	72	72	70	71	70	70	72	71	69	70	72	73	70	70		71.0

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.38	.35	.39	.40	.47	.23	.46	.34	.37	.42	.31	.33	.46	.33	.38	.35	.32	.40	.37	.38	.28	.42	.32	.28	.34	.35	.28	.33	.23	.43		10.70
	WINO	209	221	216	220	233	243	209	194	130	132	102	109	110	161	213	190	231	309	250	240	206	189	181	128	100	99	84	73	61	59		5102
	MAX	87	86	87	85	88	82	87	89	89	88	90	90	90	88	88	87	89	82	81	79	86	85	85	86	87	88	88	89	87	88		86.7
	MIN	68	68	67	66	67	67	67	67	66	67	68	67	66	66	67	66	65	66	67	67	67	67	67	66	66	65	64	61	61	63		66.1
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.23	.30	.26	.36	.40	.28	.30	.33	.19	.24	.20	.29	.27	.29	.27	.32	.29	.30	.28	.28	.22	.29	.17	.26	.23	.28	.23	.23	.25	.22		8.06
	WINO	29	42	40	35	49	34	33	27	15	15	15	27	34	20	33	35	35	48	36	36	25	23	24	24	20	26	31	21	23	14		869
	MAX	88	89	89	91	90	90	89	92	88	87	88	92	91	89	89	91	87	89	88	88	90	92	92	90	89	90	89	91	92	93		89.8
	MIN	69	68	67	67	68	68	67	68	66	67	66	67	68	67	68	67	67	67	66	66	67	68	67	67	65	66	66	66	66	66		66.9

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0436	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
[illegible] RESERVOIR 1094.	0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A 0[illegible]	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 11[illegible]	A 0939	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	A 11[illegible]0	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTO
KEALIA 1112	A 3482	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTO
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	NATL WEATHER SERVICE
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6062	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M[illegible] 1001	6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTO
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650				S	LIHUE PLTM CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTO
RESERVOIR 6 1004	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A 8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUF PLTM CO LTO
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DUN NITCHELL
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 64 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MOMTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P		C	BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MAKINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANMING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 77192	0964	02	MONULULU	2	21 23	157 54	170				C	BOARO OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
H[illegible]ULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WSFC 703	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	NATL WEATHER SERVICE
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	NATL WEATHER SERVICE
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		MID		C	BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	OAHU	1	21 19	157 41	1380				C	CLOSED 2/11/70
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.24	3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNE	A 5650	04	WAIANAE	4	21 29	158 08	1500					U S NAVY
LULUKU	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LOM
LUNALILO HOME 7.4.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796.1	A 5766	04	WAIAMAE	4	21 28	158 13	15		7A			HAROLD ROBERTS
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A		C	U S COAST GUARD
MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240				C	CLARENCE LEE
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 77	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDERAL AVIATIOM ADM
NUUANU RES 4 783	6926	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 780	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTK CO LTO
WAIALAE KAHALA 715	9165	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			ALFRED J. PRATT
WAIANAE MAUKA 803	A 9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 835	A 9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTO
WAIKANE 845	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	9983	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.9	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KE NELE E PENS 55	A 4396	01	MOLOKAI	1	21 12	157 12	560				C	NOLOKAI RANCH, LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL NONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNA LOA 51	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	DOLE COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUKOO KAI 543.1	8221	01	MOLOKAI	1	21 05	156 48	10				C	MISS NIRIAM DAVIS
PUUOHOKU RANCH 542.[illegible]	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHUKU RANCH
WAIKOLU 54[illegible]	A 9434	01	MOLOKAI	1	21 08	156 59	3550				C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 67[illegible]	A 3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
ISLAND OF LANAI												
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370					ST. DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430					DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAD	2	20 43	156 16	9960	8A	8A		C	LKHEED SP & MSLE DIV
HALEHAKU 492.2	101[illegible]	02	MAKAWAD	1	20 55	156 17	690				C	PHIL SCUTT
HALIIMAILE 423	A 107[illegible]	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	108[illegible]	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	112[illegible]	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	112[illegible]	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	114[illegible]	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 155[illegible]	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 188[illegible]	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A 188[illegible]	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLO 49 494	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8[illegible]	8A			AMFAC PROPERTYS
KAMAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTO
KAHULUI WSO 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MI[illegible]	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTO
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7[illegible]	7A			E MAUI IRR CO LTO
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8[illegible]	8A		S	A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HAMA	1	20 39	156 04	260		7A			HANA RANCH
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				S	NAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTO
LAUMIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIOMEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO
NAKALELE -FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800					PIOMEER MILL CO LTO
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTO
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	17		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	MANA	2	20 41	156 08	357					KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HAMA	1	20 50	156 13	2980					E MAUI IRR CO LTO
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTO
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	6		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	216				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAM CON & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	131		VAR			KAONOULU RAMCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER NILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	[illegible]	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTO
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	[illegible]	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	MAMA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386	9484	03	WAILUKU	[illegible]	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	MAMA	[illegible]	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KOMA	[illegible]	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		VAR			KOHALA DITCH CO LTO
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214	0840	01	MAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	[illegible]	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	[illegible]	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A 1060	01	MAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	MAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1520		VAR		C	HILO COUNTRY CLUB
HILO WSO 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	M KOMA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HOLUALOA MAKAI 69.16	1570	04	HAWAII	4	19 38	155 58	1040				C	SIO WEINRICH
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		VAR			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEMUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KOMA	4	19 30	155 55	1340		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	M KOMA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA MO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUMA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAWAINUI LOWER 193	3770	01	HAMAKUA	1	20 05	155 39	1080					HOMOKAA SUGAR CO
KEAAU 92	3872	0[illegible]	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2	3977	0[illegible]	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS ANY GREENWELL
KEHENA 181.2	4245	01	M KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	4632	0[illegible]	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	4670	01	M KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	4675	01	M KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	M KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOMO
KOIAWE LOWER 196	4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA (KAILUA) 68.3	4764	0[illegible]	N KONA	4	19 39	156 00	30	8A	8A		C	STAMDARD OIL CO OF CAL
KOMA VILLAGE 93.8	4765	0[illegible]	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HANAKUA	1	20 02	155 21	840		6A			HAMAKUA NILL CO
KUKUIHAELE HIC 199	4928	01	HANAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CANP 79	5011	0[illegible]	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULAMI NAUKA 76	5018	0[illegible]	N HILO	5	19 35	155 27	8300				C	MAUNA LOA OBS.
KULANI SCHOOL SITE 78	5021	0[illegible]	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALANILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	0[illegible]	M KONA	4	19 40	155 58	1530		8A			KONA EXPERINENT STATION
MAMUKA 2	6134	0[illegible]	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	0[illegible]	S KOHALA	1	20 01	155 50	103		8A			NAUNA KEA BEACH HOTEL
NAUMA LOA SLOPE OBS	6198	0[illegible]	MANAKUA	5	19 32	155 35	11146	MID	MID			NAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	6268	0[illegible]	M KONA	4	19 37	155 58	475		8A			KONA EXPERINENT STA
MIDDLE PEN 147.1	6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	6407	0[illegible]	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	0[illegible]	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	0[illegible]	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO

CONTINUED

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6804	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO, INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8003	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PILIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 93.1	A 8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. KAPP
PUU KIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUOKUMAU 167	A 8548	06	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	8340		6A		C	DON WINTERS
PUU WAAWAA 94.1	A 8559	05	N KONA	5	19 47	155 51	2570		7A		C	GILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UMIKOA 118	8780	01	HAMAKUA	1	19 58	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKAHOHULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
NEW STATION ISLAND OF OAHU												
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation, Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\+ And also on an earlier date or dates.

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data

* Amount included in following measurement, time distribution unknown

A The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WW Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

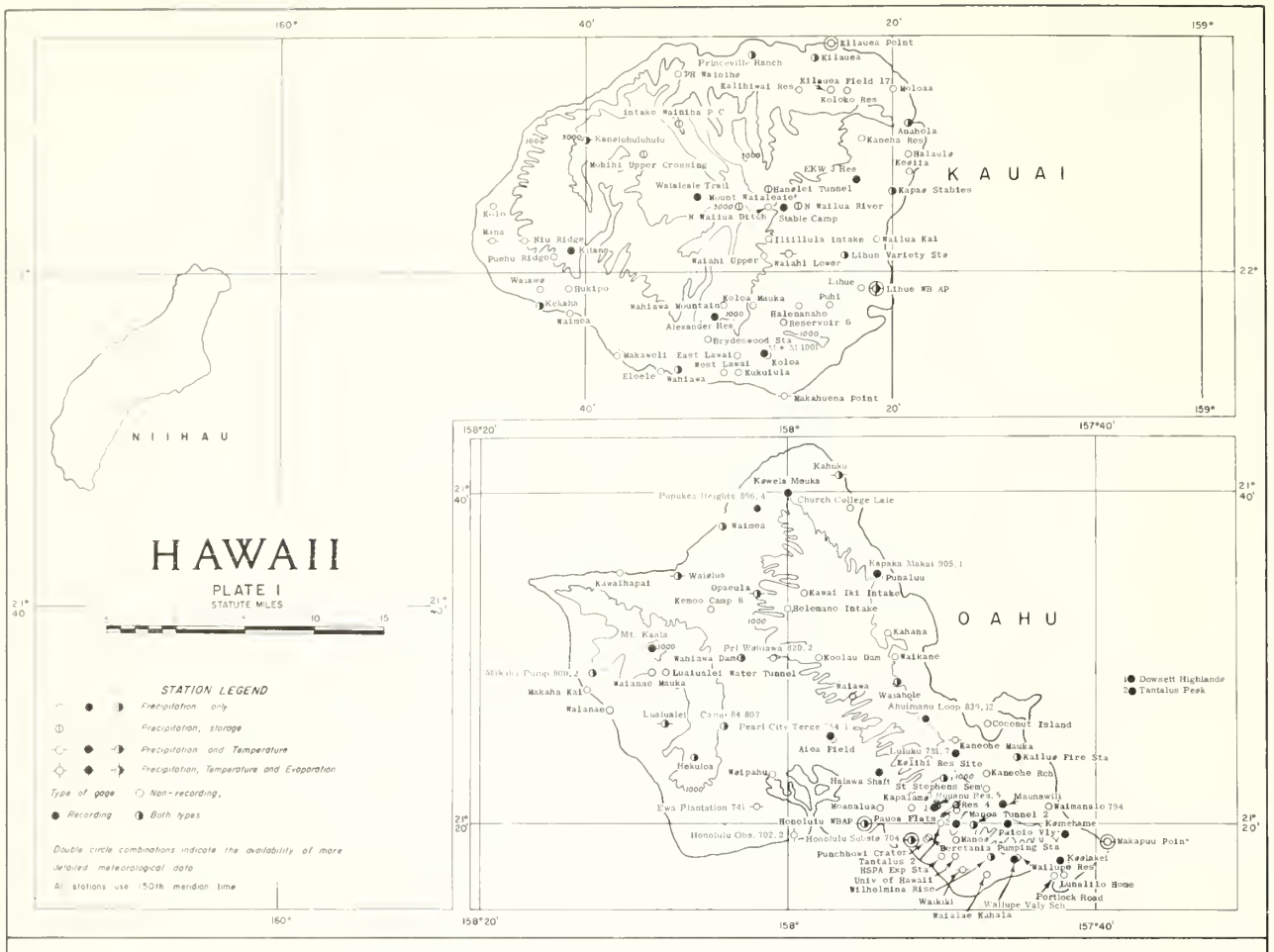
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

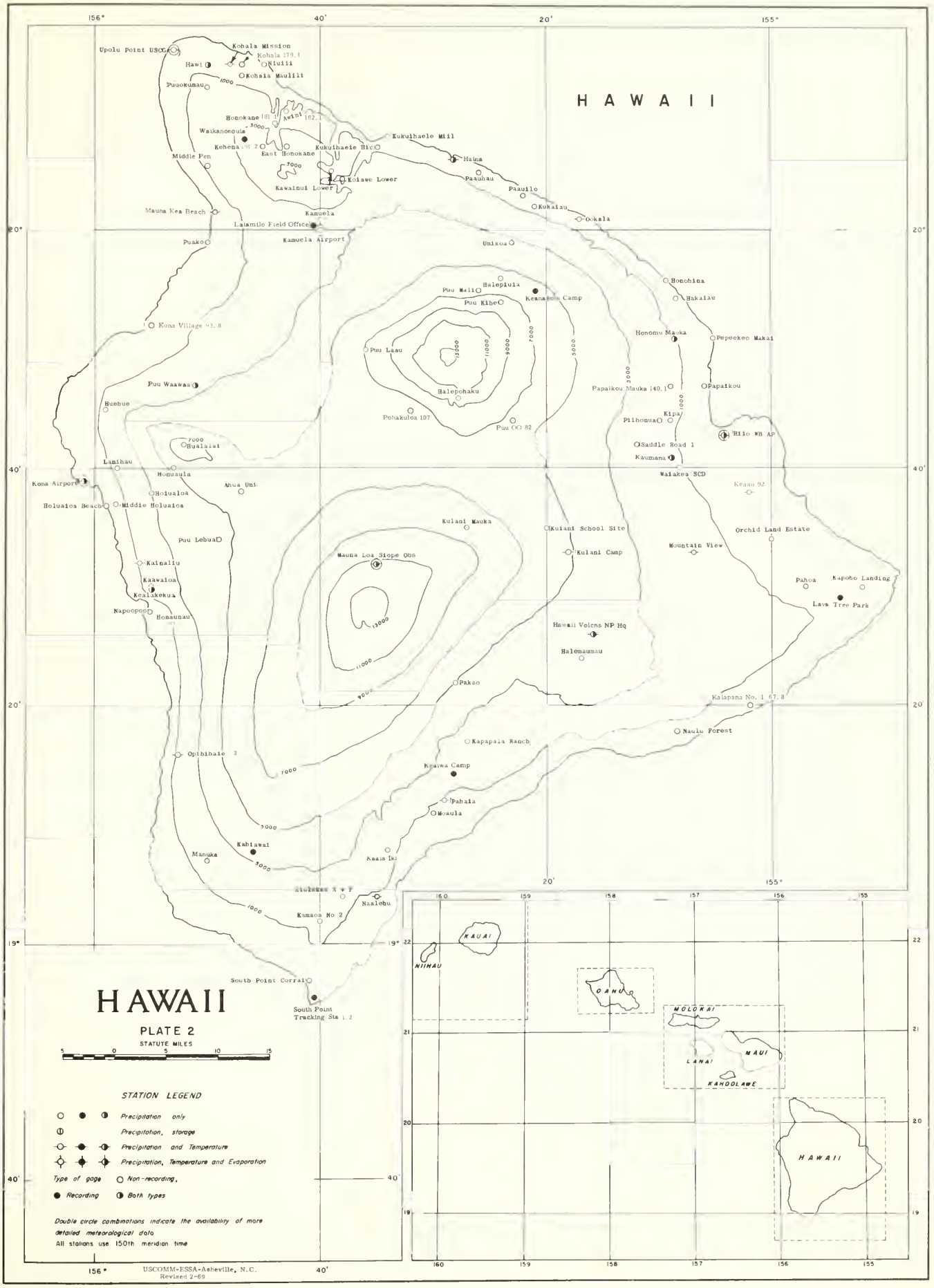
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price. 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-NOAA-ASHEVILLE-1/4/71-890


HAWAII
PLATE I
STATUTE MILES
0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
Kilauea Point
Princeville Ranch
Kilauea
PH Waiohia
Kilauea Field 17
Moloaa
Kalihiwai Res
Kolako Res
Intake Waiohia P C
Anahola
Kaneohulululu
Kanaha Res
Mohihi Upper Crossing
Halaula
Kealia
EKW 3 Res
Waimeae Trail
Hanalei Tunnel
Kapaa Stables
Mount Waialeale
N Wailua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Kilauea Kai
Puehu Ridge
Kilauea
Waiahi Upper
Waiahi Lower
Libun Variety Sto
Waiawa
Ruklpo
Lihue
Lihue WB AP
Kekaha
Koloa Mauka
Puhi
Wahiawa Mountain
Halenanaho
Waimea
Alexander Res
Reservoir 6
Brydeswood Sta
Makaweli East Lawai
Koloa
West Lawai
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Church College Late
Waimea
Kawaihapai
Waialua
Opaeula
Kawai Iki Intake
Kemoo Camp 6
Helemano Intake
Kahana
Mt. Kaala
Pri Wahiawa 820.2
Wahiawa Dam
Koolau Dam
Waikane
Waialua
Waianae Mauka
Waianae
Ahuimanu Loop 839.12
Coconut Island
Pearl City Terce 734.1
Aiea Field
Kaneohe Mauka
Kailua Fire Sta
Kelihi Res Site
Kaneohe Rch
Waipahu
Halawa Shaft
St Stephens Sem
Kapalama Housing Res. 5
Maunawili
Moanalua
Res 4
Waimanalo 794
Honolulu WBAP
Pauoa Flats
Pauoa Tunnel 2
Kemehame
Honolulu Obs. 702.2
Honolulu Substa 704
Manoa
Punchbowl Crater
Tantalus 2
HSPA Exp Sta
Univ of Hawaii
Wilhelmina Rise
Waikiki
Wallupe Valy Sch
Wailalae Kahala
Makapuu Point
Kealakei
Wallupe Res
Lunalilo Home
Portlock Road
1 Dowsett Highlands
2 Tantalus Peak
MOLOKAI
LANAI
KAHOOLAWE
MAUI
Kaolaupapa
Kaolelele Pons
Molokai AP
Kualapuu
Puuohoku Ranch
Kaunakaka Mauka
Kaunakakai
Waikolu
Mapulehu
Kamalo Mauka
Nakalele Fld 60
Honolua Fld 49
Honokohua
Field 46
Mokupea 475
Honokohau
Kahakuloa Mauka 482.3
Mahinahina
Waiheo Valley
Kaanapali Airport
Waiehu Camp
Puu Kukui Makai
Kahoma Intake
Kahului WB AP
Hamakuapoko
Halehaku 492.2
Wahikuli
Kukui
Iao Needle
Wailuku
Sprockelsville
Kailua
Lahaina
Kauaula Intake
Olowalu
Puunene
Lupi Upper
Launiupoko Village
Launiupoko Intake
Waikapu
Keahua
Halimaile
Olowalu Gulch
Haleakala B E S
Kalilili
Haleakala Ranch
Pohakea Bridge
Puohokamoa 2
Waikamoi Dam
Paakea
Hana AP
Ukumehame
Kihei
Olinda
Ukulele
Wailua Iki
Kula Heights
Puu Pakl
Twin Gates
Honomanu Gulch
Haleakala RS
Holua Cabin 259.5
Hana
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Polipoli Spgs
Pahilehulu
Hanahuli
Kaupo Ranch House
Ulupalakua Ranch
Kipahulu
Waiopai Rch
Auwahi
Kanepuu 690
Mahana
Lanai City
Lanaihale
Waiakeakua
Kaumalapau Harbor
Mt. [illegible] 674
USCOMM-ESSA-Asheville, N.C.
Revised 2-69


HAWAII
Upolu Point USCG
Kohala Mission
Kohala 179.1
Hawi
Niulii
Kohala Maulili
Puuokumau
1000
Honokane 181.1
Awini 182.1
3000
Waikanonoula
Kehena 2
East Honokane
Kukuihaele Mill
Kukuihaele Hic
Middle Pen
5000
Kawainui Lower
Koiawe Lower
Hana
Pauuhau
Paauilo
Kukaiau
Ookala
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Halepiuia
Puu Mali
Keanakolu Camp
Puu Kihe
Honohina
Hakalau
Kona Village 93.8
Puu Laau
13000
11000
9000
7000
5000
3000
Honomu Mauka
Pepeekeo Makai
Papaikou Mauka 140.1
Papaikou
Halepohaku
Puu Waawaa
Buehue
Pohakuloa 107
Puu OO 82
Kipu
Piihonua
Hilo WB AP
Saddle Road 1
Kaumana
7000
Hualalai
Waiakea SCD
Keaau 92
Lanihau
Honuaula
Kona Airport
Ahua Umi
Holualoa
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Mountain View
Puu Lehua
Mauna Loa Slope Obs
Kulani Camp
Kainaliu
Kaawaloa
Kealakekua
Pahoa
Kapoho Landing
Lava Tree Park
Napoopoo
Honaunau
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 67.8
Naulu Forest
Kapapala Ranch
Opihihale 2
Keauwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kaala Ik
Naalehu
Kamaoa No 2
South Point Corral
South Point Tracking Sta 1, 2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
PLATE 2
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
USCOMM-ESSA-Asheville, N.C.
Revised 2-69

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
OCTOBER 1970
Volume 66 No. 10

CLEMSON UNIVERSITY LIBRARY
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S.I., TECH. & SCI. DIV.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days: Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days: .10 or More	.50 or More	1.00 or More
* * *																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A														5.76	.84			.0	0				
KANALOHULUHULU 1075		70.6	54.1	62.4		78	4	45	12		0	0	0	0	3.48		1.34	3	.0	0		6	2	1
KAPAA STABLES 1104	A														3.61				.0	0				0
KILAUEA FIELD 17 1135	A														4.29	- 2.78			.0	0				0
KILAUEA POINT 1133		82.4	73.2	77.8		85	11+	68	30+		0	0	0	0	4.60		1.00	13	.0	0		10	4	1
KOLOA 936	A														4.11	- 1.20			.0	0				
LIHUE WSO 1020.1	//R	83.4	73.3	78.4	1.5	86	3+	67	31		0	0	0	0	2.74	- 1.29	.62	1	.0	0		7	1	0
MANA 1026		87.2	66.3	76.8	- .2	90	23	63	22		1	0	0	0	1.45	- .60	.51	20	.0	0		3	1	0
N WAILUA DITCH 1051	A														12.21				.0	0				
PH WAINIHA 1115															7.14	- 1.10	2.14	28	.0	0		12	5	1
PUEHU RIDGE 1040															3.34		1.08	29	.0	0				
WAHIAWA 930	A														2.76	- .26	1.28	2	.0	0				1
WAIAHI LOWER 1054		81.5	65.2	73.4		85	16+	59	29+		0	0	0	0	8.54		1.37	3	.0	0		17	5	2
WAIMEA 947															1.82	- .09	.61	2	.0	0				0
ISLAND				73.8											4.70				.0					
* * *																								
ISLAND OF OAHU																								
HONOLULU 08SERV 702.2															3.15		2.43	3	.0	0		4	1	1
HONOLULU WSFC 703	R	85.1	71.8	78.5	.3	88	13	68	30		0	0	0	0	1.88	.04	.69	2	.0	0		4	1	0
KAHUKU 912	A	83.6M	70.9M	77.3M	.0	87	15+	65	19		0	0	0	0	4.59	.43			.0	0				
KANEOHE MAUKA 781		81.8	70.5	76.2	.1	86	4+	67	31+		0	0	0	0	5.77	.02	2.00	16	.0	0		15	2	1
KOOLAU DAM 833															V25.30				.0	0				3
LUALUALEI 804		86.1	72.0	79.1		91	5	68	30+		2	0	0	0	1.21				.0	0				0
MAKAPUU POINT 724		79.4	70.4	74.9		84	4	67	23		0	0	0	0	2.07	- .93	.79	3	.0	0		7	1	0
NUUANU RES 4 783															9.62	.69	1.12	5	.0	0				3
OPAEULA 870	A	79.9	65.6	72.8	.4	86	15	62	31+		0	0	0	0	4.91	.06	.90	3	.0	0		17	2	0
PALOLO VALLEY 718															11.46	.63	1.98	21	.0	0		21	8	4
PRI WAHIAWA 820.2	A	84.0	65.6	74.8		88	19+	60	1		0	0	0	0	2.16				.0	0				
PUNALUU 884	A														5.48		1.83	16	.0	0				
WAHIAWA DAM 863	A														2.89				.0	0				
WAIAHOLE 837	A														10.08	- 2.00	2.21	5	.0	0		15	9	2
WAIALUA 847	A	85.1	66.4	75.8	.4	89	18	61	13		0	0	0	0	1.54	- 1.15	.57	3	.0	0		5	1	0
WAIKIKI 717.2		86.7	71.2	79.0		89	29+	66	30		0	0	0	0	2.16		1.56	3	.0	0		3	1	1
WAIMANALO EXP FARM		83.4	72.0	77.7		88	1	66	17		0	0	0	0	4.72		1.56	3	.0	0		9	4	1
WAIPAHU 750	A														2.61	.27			.0	0				
ISLAND				76.6											4.49				.0					
* * *																								
ISLAND OF MOLOKAI																								
KUALAPUU 534	A														1.20	- 1.22	.59	31	.0	0		1	0	0
MAPULEHU 542															4.41	1.00	.52	10	.0	0		1	0	0
MAUNALOA 511	A														1.01	- 1.36			.0	0				0
MOLOKAI AP 524		83.1	71.0M	77.1M		88	14	63	14		0	0	0	0	1.16		.39	3	.0	0		3	0	0
ISLAND				77.1											1.95				.0					
* * *																								
ISLAND OF LANAI																								
LANAI CITY 672	A	78.4	65.9	72.2	1.5	82	15+	63	25+		0	0	0	0	1.78	- 1.17	.70	31	.0	0		6	1	0
ISLAND				72.2											1.78				.0					
* * *																								
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														4.55	.26	.92	24	.0	0		11	3	0
HALEAKALA RS 338		63.0	45.0	54.0		68	20+	38	30		0	0	0	0	2.12		.60	26	.0	0		6	2	0
HANA AIRPORT 355		83.0	69.3	76.2		87	2+	64	30		0	0	0	0	6.37		1.26	10	.0	0		17	2	1
HONOKOHUA 493	A														1.65	- 1.03			.0	0			0	0
KAANAPALI AIRPORT		84.4	70.6	77.5		87	15+	66	29		0	0	0	0	.32		.10	31+	.0	0		2	0	0
KAHULUI WSO 398	R	87.1	69.4	78.3	1.0	92	3	64	31+		4	0	0	0	.48	- .39	.25	30	.0	0		2	0	0
KAILUA 446		79.0	67.1	73.1	.4	82	4+	63	31		0	0	0	0	7.62	- 1.70	1.10	16	.0	0		16	5	1
KEANAE 346	A														18.20	2.85			.0	0				
KIPAHULU 258															4.89	- 3.41	.73	5	.0	0		13	3	0
KULA SANATORIUM 267		73.4	58.9	66.2	.0	77	21	57	31+		0	0	0	0	.35	- 1.91	.10	26+	.0	0		2	0	0
LAHAINA 361		87.0	69.3	78.2		89	26+	65	31		0	0	0	0	.06	- .94	.06	1	.0	0		0	0	0
PAIA 406															.78	- 1.38	.14	24	.0	0		4	0	0
WAILUKU 386		82.7M	71.5M	77.1M	.1	87	2	67	30+		0	0	0	0	*				.0	0			0	0
ISLAND				72.6											3.95				.0					
* * *																								
ISLAND OF HAWAII																								
HAINA 214		82.3	67.0	74.7	.7	85	19+	63	12		0	0	0	0	2.95	- 2.30	.73	24	.0	0		10	2	0
HAWAII VOLCNS NP HQ 54		70.0	54.9	62.5	- .4	75	2	50	30		0	0	0	0	5.13	- 1.75	.93	22	.0	0		10	4	0
HILO WSO 87	R	83.7	66.8	75.3	.2	89	1	62	29		0	0	0	0	8.44	- 2.36	1.45	26	.0	0		16	5	3
HUEHUE 92.1	A														.46	- 3.13	.25	1	.0	0			0	0
KAINALIU 73.2		79.3	63.7	71.5		82	17	60	31+		0	0	0	0	4.24	- 1.96	1.13	8	.0	0		8	4	2

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
OCTOBER 1970

Station		Temperature													Precipitation									
											No. of Days								Snow, Sleet			No. of Days		
											Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KAMUELA AIRPORT 191		75.4	54.2M	64.8M		79	19+	47	30		0	0	0	0	.69		.36	3	.0	0		2	0	0
KEAAU 92		81.6	66.4	74.0	- .4	86	2+	63	2		0	0	0	0	9.11	- 3.27	1.08	5	.0	0		16	9	1
KEALAKEKUA 26.2		78.9	64.7	71.8		81	25+	61	31		0	0	0	0	3.18		.85	6	.0	0		6	3	0
KONA (KAILUA) 68.3		85.7M	70.9M	78.3M		88	19	68	28+		0	0	0	0	.33		.28	21	.0	0		1	0	0
KUKUIHAELE HIC 199															2.86	- 3.08	.74	31	.0	0		10	1	0
KULANI CAMP 79		64.9	49.5	57.2		72	2	41	15		0	0	0	0	5.20		1.00	24	.0	0		13	3	1
PAHALA 21		82.0M	63.3M	72.7M	- .5	84	26	60	1		0	0	0	0	1.60	- 2.41			.0	0				
POHAKULOA 107	A														.00		.00		.0	0		0	0	0
PUAKO 95.1	A	87.2	70.4	78.8		90	20+	66	14		2	0	0	0	.02		.01	3+	.0	0		0	0	0
PUU WAAWAA 94.1	A														.63	- 2.25			.0	0				0
UMIKOA 118															3.70	- 1.25			.0	0				0
WAIAKEA SCD 88.2															8.88		1.63	5	.0	0		13	8	4
ISLAND				71.1											3.38				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 95° ON THE 22D AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 30° ON THE 28TH AT MAUNA LOA SLOPE OBS., HAWAII

GREATEST TOTAL PRECIPITATION: 14.69 AT HONOMU MAUKA 138, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 6 STATIONS.

GREATEST ONE-DAY PRECIPITATION: 2.90 ON THE 16TH AT KANEOHE RANCH 838, OAHU

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
OCTOBER 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	5.76	.05	.40	*	*	.15	.09	.02	.03		*	*	.02		.01			*	*	3.40	.03	.03		.10	*	*	.58	.02	.05	.51	.27		
BRYDESWOOD STA 985	A	2.96	.02	1.12	*	*	.57	.03	.02	.02		*	*	.04					*	*	.10	.09	.23	.02	.24	*	*	.31		.05	.06	.04	*	
EAST LAWAI 934	A	4.76	.50	1.52	*	*	.71	.06	.09	.05	T	*	*	T					*	*	*	.23	.14	.19	.02	.38	*	.52	.05	.05	.11	.14	*	
ELEELE 927	A	3.04	.08	1.04	*	*	.75					*	*	.38					*	*	.14	.04	.09		.09	*	*	.04		T	.35	.04		
HALAULA 1110	A	4.09	.03	.40	*	*	.20	.20	.04	.02	.04	*	*	.03					*	*	1.35	.05	.04		.13	*	*	.65	.03	.11	.50	.27		
HALENANAHO 1006	A	7.19	.47	1.82	*	*	1.34	.09	.07	.02	.03	*	*	.16				.14	*	*	.93	.08	.18	.02	.34	*	*	.42	.16	.24	.22	.46	*	
HUKIPO 945		1.99	.46	.17	*	.55															.32									.49			
ILILILULA INTAKE 1050	A	11.99		1.19	*	*	2.35	.37	.12	.06	.02	*	*	.25			.03		*	*	.85	.25	.52	.35	.58	*	*	2.73	.08	.42	1.35	.47		
INTAKE WAINIHA PC 1086	A	4.64	*	*	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.60	*	1.04	*	*	*	*	*	*	*	
KALIHIWAI RES 1131	A	5.40	.01	.23	*	*	.86	.24	.11	.06	.01	*	*	.07	.01	.30		.04	*	*	.23	.04	.16	.07	.37	*	*	.98	.12	.84	.41	.24	*	
KANALOHULUHULU 1075		3.48	.25	.79	1.34	.02			.03											.07	.03	.23	.14	.05	.06	.08	.05	.02		.20	.04	.08		
KANEHA RESERVOIR 1092	A	6.02	.05	.42	*	*	1.10	.10	.20		.06	*	*	.18	.07	.07	.30			*	.35	.11	.17		.25	*	*	.70	.06	.75	1.01	.30		
KAPAA STABLES 1104	A	6.61	.05	.42	*	*	.50	.10	.03			*	*	.10		.10				*	.34		.12		.15	*	*	.67	.01	.20	.62	.22		
KEALIA 1112	A	1.94	.10	.32	*	*	.19	.05	.02	.02							.01			*	.27	.02	.05		.07	*	*	.40	.02	.11	.19	.10		
KEKAHA 944		2.41	.59	.22	*	.86							.22							.38	.03	.05							.01	.05			
KILAUEA 1134	A	2.95		.20	*	*	.61	.04	.06	.02	.02	*	*	.03		.05		.02	*	*	.21	.04	.21	.02	.11	*	*	.60	.21	.25	.15	.10	*	
KILAUEA FIELD 17 1135	A	4.29	.01	.22	*	*	.60	.19	.06	.02	.01	*	*	.08	.04	.18	.04	.03	*	*	.21	.03	.23	.02	.18	*	*	.93	.03	.51	.31	.36	*	
KILAUEA POINT 1133		4.60	.90	.64		.01	.12	.01				.01			1.00			.03	.50			.07		.14		.21	.02		.38	.08	.25		.23
KOLO 1033		1.69	.45	.12	.45															.05	.04	.26									.32		
KOLOA 936	A	4.11	.02	.87	*	*	1.37	.05	.11	.04		*	*	.03					*	*	.08	.05	.15	.02	.23	*	*	.61	.15	.10	.12	.11	*	
KOLOA MAUKA 994	A	5.70	.19	1.27	*	*	.73	.07	.05	.03	.07	*	*	.14				.07	*	*	.51	.06	.26	.04	.61	*	*	.69	.13	.31	.26	.21	*	
KOLOKO RES 1137	A	5.17		.05	*	*	.67	.16	.04		.01	*	*	.03		.10	.27	.06	*	*	.75	.02	.07	.01	.40	*	*	1.09	.17	.73	.32	.22	*	
KUKUIULA 935	A	3.30	.16	.96	*	*	.89	.05	.05	.12	.01								*	*	*	.15	.06	.06	.15	*	*	.22	.05	.04	.27	.06	*	
LIHUE VARIETY STA		7.19	.23	.83	.85	*	.16	.08	.01		.05	.02			.06	.01			.95	*	.34	.04	.15	.02	.51	*	.30	.59	.13	.44	.61	.81		
LIHUE 1020	A	5.65	.42	1.48	*	*	.83	.03	.07		.01	*	*	.07				.03	*	*	.96	.03	.01		.27	*	*	.19	.05	.29	.73	.18		
LIHUE WSO 1020.1	//R	2.74	.62	.16	.41	T	T	.01	T			.01	T				.04	.48	.02	T	T	.01	T	.13	T	.03	.08	.01	.13	.48	.01	.02	.09	
MAKAHUENA POINT 940.1		3.66	.05	.46	.70	.72	.03	.02	.05	.01	.07		.10						.47	.05		.05	.09	.02	.10		.22	.23	.02	.02	.15	.03		
MAKAWELI 965	A	2.24	.57	.77															.48	.02	.02	.02		.01					.35				
MANA 1026		1.45	.33	.03	.43	.01														.08	.06	.51											
MOHIHI UPR CROSS 1083	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MOLOAA 1145	A	3.59		.05	*	*	.45	.09	.04	.02		*	*	.07			.37	.25	*	*	.54		.02		.09	*	*	.72	.05	.34	.34	.15		
MOUNT WAIALEALE 1047		-	.83	1.69	1.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035		2.40	.40	.12	*	.65														.07	.04	.40								.72			
N WAILUA DITCH 1051	A	12.21		.86	*	*	2.20	.30	.20		.26	*	*	.46					*	*	1.20	.30	.86	.26	.33	*	*	1.56	.26	.96	1.60	.60		
PH WAINIHA 1115		7.14		.07	.69	.01	.01	.19	.11	.05	T	.05				.29			.06	.02	.01	.08	.14	.08	.36	.04	.60	.36	.64	2.14	.44	.68	.02	
PRINCEVILLE RANCH 1117		2.91		.06	.02			.02	.21	.02				.06		.16			.01	.03		.01	.13	.02	.15	.02	.03	.72	.11	.93	.14	.06		
PUEHU RIDGE 1040		3.34	.47	.30	*	1.06							.11							.14		.18								1.08			
PUHI 1013	A	7.14	.56	1.72	*	*	1.14	.11	.04	.03	.01	*	*	.12				.08	*	*	1.44	.02	.05		.22	*	*	.42	.09	.18	.62	.29	*	
RESERVOIR 6 1004	A	6.00	.56	1.81	*	*	1.13	.08	.04		.05	*	*	.08		.03		.02	*	*	.55	.04	.07	.04	.54	*	*	.28	.07	.12	.12	.37	*	
WAHIAWA 930	A	2.76	T	1.28	*	*	.69	T				*	*	.07					*	*	.04	.12	.09		.12	*	*	.13			.15	.07		
WAHIAWA MOUNTAIN 990	A	7.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.50
WAIAHI LOWER 1054		8.54	.19	.58	1.37	.03	.10	.22	.12	.05	.02	.09	.19		.04		.02		.57	.34	.04	.04	.40	.03	.49	.08	.48	1.33	.14	.38	.96	.17	.02	
WAIAHI UPPER 1052		9.28	.10	.71	2.12	.10	.10	.35	.11	.05		.02	.15						.36	.05	.04	.22	.55	.15	.60	.18	1.19	.89	.05	.20	.65	.25	.05	
WAIAWA 943		2.34	.58	.04	.65	.11							.29							.51	.03	.04								.09			
WAILUA KAI 1065	A	5.16	.30	.67	*	*	.95											.19	*	*	.90				.38	*	*	.55	.22	.15	.81	.04		
WAIMEA 947		1.82	.41	.61	*	.52															.14									.14			
WEST LAWAI 931	A	3.24	.25	1.61	*	*	.39	.04	.03	.03									*	*	.03	.06	.02	.05	.23	*	*	.37	.02		.05	.06	*	
* * *																																	
ISLAND OF OAHU																																	
BERETANIA PUMPING STA		2.23	.05	.13	1.33		.04	.02	T	T	.01			.01				.03				.03	.05	.02	.01		.03	.33	.05		.07	.02		
CAMP 84 807	A	2.25	.24	*	*	*	1.47	*	*	.05	*	*	*	*	*	*	.14	*	*	*	.05	*	*	.06	*	*	*	.20	*	*	.04			
CHURCH COLLEGE LAIE		4.28	.32	.30	.01	.05	.08	.09	.02	.08	.06	.01		.20	.06	.02	.03	.38	.74			.16	.12	.06	.09	.02	.23	.05	.07	.09	.21	.33	.40	
COCONUT ISLAND 840.1		4.64		.20	1.02		.02	.16	.05	.02		.03			.01			1.90	.15	.01	.02	.08	.04	.01	.03			.13	.06	.03	.62	.05		
EWA PLANTATION 741		2.80	.11	.24	2.10	.05		.06	.01									.06							.03			.01				.13	
HELEMANO INTAKE 881	A	3.90	.10	*	*	*	1.11	*	*	*	.30	*	*	*	*	*	*	*	*	*	.75	*	*	.58	*	*	*	.76	*	*	.30	*	*	
HOKULOA 725.2	A	3.03	*	2.50	*	*	.01	*	*	*	*	*	*	*	*	*	*	*	*	.20	*	*	*	*	*	*	*	*	*	*	*	*	.10	
HONOLULU OBSERV 702.2		3.15	.06	.40	2.43	T		.05										.10	.01			T						.10					
HONOLULU WSFC 703	R	1.88	.42	.69	.30		.06	.01	T		T			.03				.02			T	.04	T	T	.01	T	.13	.01	.02	T	.03	.06	.05	
HONOLULU SUBSTA 704		1.83	.10	.67	.58		.03				.02				.03							.06	.02				.20	.05	.04				.03	
H S P A EXP STA 707		2.96	.03	.13	1.71		.03	.06	.02	.02	.03			.03	.01			.05				.02	.09	.08	.01	.01		.42	.03	.11	.01	.03	.03	
KAHANA 883	A	11.64	*	*	*	*	2.28	*	*	*	*	*	2.00	*	*	*	*	*	*	*	3.36	*	*	*	*	*	*	4.00	*	*	*	*	*	*	
KAHUKU 912	A	4.59	.90	.28	*	*	.45				.04	*	*	.20		.06		.20	*	*	1.35	.12	.05	.02	.08	*	*	.16		.21	.11	.36		
KAILUA FIRE STA 791.3		3.10		.15	.98		.02	.04	.02	.01	T		.01	.01		.01		.50	.01	.05	.02	.01	.03	.02	.01	.04	.06	.34	.06	.07	.09	.45	.09	
KALIHI RES SITE 777		7.74	.32	.74	.94		.40	.02	.02	.02	.02			.06	.12		.04	.70			.24	.20	.78	.02	.20	.06	.76	.16	.38	.22	.62	.44	.26	
KANEOHE MAUKA 781		5.77	.02	.28	.85			.09	.12	.03		.05				.21		2.00	.34			.12	.14	.18	.13	.09	.23	.03	.17	.31	.08	.18	.12	
KANEOHE RANCH 838	A	6.97	.01	.30	*	*	1.15	T	T	T	.02	.38	*	.15	.01	T	T	2.90	.10	*	.08	.10	.09	.05	.12	*	.10	.02	.45	.35	.24	.15	.20	
KAPALAMA 773	A	4.19	.35	1.00	*	*	1.00		.29	.05									*	*	.05	.10	.10	.15	.05	*	*	.50	.55					
KAWAIHAPAI 841	A	1.78	.09	.11	*	*	1.15	T										.03	*	*	.14	.04	.01		.03					.12	.06	T	*	
KAWAI IKI INTAKE 880.2	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KEMOO CAMP 8 855	A	2.13	.23	.09	*	*	1.13	.04	.01					.12				.02	*	*	.15	.01		.05	.10	*	*	.05	.02	.02	.07	.02		
KOOLAU OAM 833		25.30	.17	1.16	1.12	.53	.27	.80	.15	.32	.22	.11		.05				.07	.02		.16	.45	1.67	.80	.64	.87	.38	.36	.08	.08	.18	.08	.04	
LUALUALEI 804		1.12	.13	.05	*	*	.98															.01	.01		.03								
LUALUALEI WTR TUNNEL	A	2.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.90	*	*
LUNALILO HOME 724.2		1.21	.05	.04	*	*	.07	.08	.03	.02	.02					.01		.15	*	*	.03		.07	.10	.02	*	*	.19	.13	.14		.06	*	
MAKAHA KAI 796.1	A	2.51	.08	.55	1.82	T												.01		T					T					.05			T	
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		2.07	.02	.40	.79		.10	.13	.01					.04	.01			.05	.04			.01	.10	.11			.01	.10	.05	.02	.04	.02	.02	
MANOA 716		7.38	.06	.09	1.57		.06	.35	.09	.13	.13	.10			.02	.01		.02	.12		.02	.09	.36	.58	.86	.88	.08	.98	.13	.54	.04	.09	
MANOA TUNNEL 2 716		12.70	.16	1.26	.76		1.32	.04	.36	.04	.32		.02	.14	.08		.26	.48			.22	.34	2.02	.10	.28	.18	1.08	.34	1.04	.08	.32	.68	.76	
MOANALUA 770		4.26	.15	.49	2.10		.06	.08	.04	.05				*	.05			.04			.03	.01	.20	.08	.06	.05	.02	.50	.06	.08	.10	.01		
NUUANU RES 4 783		9.62	.22	.74	1.10	.02	1.12	*	*	*	*	*	*	.6	.02		.16	.42		.02	.12	.18	1.06	.04	.24	.18	.76	.20	.82	.34	.50	.56	.20	
NUUANU RESERVOIR 5 775	A	7.36	.09	.23	*	*	2.60	.24	.07	T	.17	*	*	.17	T			.10	*	*	.23	.23	.38	.55	.17	*	*	.90	.10	.52	.17	.10	.34	
OPAEULA 870	A	4.91	.22	.21	.90	.07		.18	.10	.03						.04			.10	.52	.01	.04	.30	.25	.11	.28	.12	.33	.30	.36	.22		.22	
PALOLO VALLEY 718		11.46	.12	1.66	.64	.06	1.14	.10	.14	.02	.12	.04		.01	.02		.16	.44	.02		.06	.30	1.98	.10	.16	.20	.56	.68	.44	.16	.64	1.08	.36	
PAUOA FLATS 784		14.12	.22	.64	1.34		1.82	.02	.48	.02	.54	.04		.2	.02		.26	.46			.24	.76	2.46	.16	.50	.16	.98	.48	.88	.22	.40	*	.74	
PORTLOCK ROAD 724.4		2.70	.30	.58	.59	.18	.38		.02					.12	.03	.10		.16			*	*	*	*	*	*	*	*	*	*	*	.06	.18	
PRI WAHIAWA 820.2	A	2.16	.11	.30	*	*	1.05	.07	T	T						T		T	*	*	.03	.06	.05	T	.06	*	*	.41	.02				*	
PUNALUU 884	A	5.48	.03	.22	*	*	.31	.09	.12		.01	*	*	.01		.14		1.83	*	*	1.17	.26	.26	.03	.12	*	*	.30	.02	.17	.15	.22	*	
PUNCHBOWL CRATER 709	A	2.59	.10	.15	1.25	.01		.10		.02	.02							.03	.02	.01			.12	.10	.03	.02	.02	.36	.10	.08	.03	.02		
ST STEPHENS SEM 788		7.25	.02	.36	1.33	.02		.90	.08	.05	.02	.01		.10	.05			1.66	.05		.02	.04	.23	.24	.25	.02	.11	.46	.02	.37	.35	.42	.07	
TANTALUS 2 780.5		9.76	.08	.18	1.03	.02	.05	.64	.21	.28	.25	.10		T	.15	T		.08	.08	T	.08	.27	.78	1.56	.33	.27	*	1.26	.45	.78	.15	.04	.04	
UNIV OF HAWAII 713	A	3.43	.06	.08	*	*	1.45	.19	.05	.05	.05	*	*	.01	.10	T		*	*	*	.05	T	.19	.19	.04	*	*	.56	.11	.17	.06	.02	*	
WAHIAWA OAM 863	A	2.89	.12	.53	*	*	1.02	.08	.02							.27		.02	*	*	.02	.03		.12	.27	*	*	.23	.02	.02	.01	.11		
WAIAHOLE 837	A	10.08	.09	.68			2.21	.57	.18	.05	.06			.58	.02	.23	.01	1.08			.94	.61	.22	.32	.12			.67	.08	.37	.08	.91		
WAIALAE KAHALA 715		3.08	.04	.18	1.86	.05	T	.15	T	T	T	T			T			.14	.11	T		T	.08	.04	T		T	.21	T	.05	.14	.02	.01	
WAIALUA 847	A	1.54	.18	.14	.57	.15			T									.02		.05	.02	.04	.23	.24	.25	.02	.11	.46	.02	.08	.09	.14	.03	
WAIANAE 798.2	A	1.25	.04	.66	.47	.01												.05		T	T		.01		T							.01	
WAIANAE MAUKA 803	A	3.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00	*	*	*	*	*	.16	
WAIAWA 836	A	11.84	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.84
WAIKANE 885	A	8.79	*	*	*	*	2.64	*	*	*	*	*	*	1.08	*	*	*	*	*	*	3.20	*	*	*	*	*	*	1.87	*	*	*	*	*	
WAIKIKI 717.2		2.16	.04	.04	1.56	.01	.08	.04		.01	T							.14					.01	T				.10	.02	.01	.03	.01	.06	
WAIMANALO EXP FARM		4.72	.09	.85	1.56		.51	.01							.01			.52	.27		.01	.01	.12	.07	.03		.05	.12	.01	.17	.23	.06	.02	
WAIMEA 892	A	2.32	.03	.01	*	*	.40	.14		.07								.05	*	*	.02	.06	.28	.12	.15	*	*	.43	.04	.29	.21	.02		
WAIPAHU 750	A	2.61	.05	.74	*	*	1.58	.07	.02									.02							.02	*	*	.05		.02	.03	.01		
WILHELMINA RISE 721		4.00	.12	.90	.62	.02	.20	.16	.10		.08			.12	.02	.02		.12				.14	.22			.01	.28	.04	.34	.06	.02		.36
* * *																																	
ISLAND OF MOLOKAI																																	
KALAUPAPA 553	A	1.44	.03	.01	.04	*	*	*	*	*	*	*	*	*	*	*	*	.17	.09	.04	.28	.11	*	*	*	*	*	*	.19	.07	.09	.32	*	
KAUNAKAKAI 536	A	.00																															

See reference notes following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																										
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KEONELELE PENS 551	A	.00																														
KUALAPU 534	A	1.20			*	*	.16	.03														.08	.07	.14	.07		*	.06				.59
MAPULEHU 542		4.41	.04	*	*	.19	.43	.11	.04	.02	.02	.52	.24	.11	*	*	.47	*	*	.08	.33	.30	*	.02	.34	*	.24	.18	.09	*	.09	.23	.32
MAUNALOA 541	A	1.01	.03		*		.78	.02										.02	*	*	.01		.01	.01	.05	*	*	.04	.04		*	*	*
MOLOKAI AP 424		1.16	.02	T	.39		.05	T											.30			.02	.04	.08	.12			.08	T				.06
PUUOMOKU RANCH 542.1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAIKOLU 540	A	4.65	*	*	*	*	*	*	1.50	*	*	*	*	*	.40	*	*	*	*	*	*	.75	*	*	*	*	*	*	2.00	*	*	*	*
ISLAND OF LANAI																																	
KANEPUU 690	A	.62	*	*	*	*	*	*	*	.17	*	*	*	*	*	*	.10	*	*	*	*	*	*	.32							.03	*	
KAUMALAPAU HARBOR 658	A	.19		.10														.07								*	*	.02					
LANAI CITY 672	A	1.78	.03	.10	.39		T	.01							.03	.01		.25	.10					.15	.01							.70	
LANAIHALE 684	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00	*	
MANELE 694	A	.35	*	*	*	*	*	*	*	.08								*	*	*	*	*	*	.07							.20	*	
MALAUEA 676	A	.42	*	*	*	*	*	*	*	.16	*	*	*	*	*	*	.63	*	*	*	*	*	*	.07	*	*	*	*	*	.16			
WAIAKEAKUA 585	A	.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.43	*	*	*	*	*	*	*	*	*	*	*	*	*		.15	*	
ISLAND OF MAUI																																	
AUWAHI-252	A	1.10	.15				.50									.16							.14								.15		
MALEAKALA B E S 434	A	4.55	.06		.01		.08	.13	.11						.15	.05	*	.30	.08	.01	.04	.04	.66	.33	.62	.92		.44	.05			.12	.35	
MALEAKALA RANCH 432	A	1.28	.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.44	*	*	.22	.09	.12	.32	*	*	*	*	*	*	*	*	
MALEAKALA RS 338		2.12		.16	T		.12	.02	T	T	T	*	T	T	.06	.02		.06	.03	T	.02	.04	.13	.03	.19	.51		.60	.02	T		.03	.08	
MALEAKALA SUMMIT 338.4		*		.02	*	*	.04	.03										.03	*	*	.27	.10	.13			*	.32	T			*	*	
MALILIMAILE 423	A	2.19			*	*	.02	.04		.01					.08			.02	*	*	1.11		.18	.10	.16	.29	*	.13	.05				*	
MAMAKUAPOKO 485		2.39				*	.05	.13	.04	.04					.08			.18	.09		.09	.05	.17	.42	.21	.32	.03	.38	.07	.02	.01	.01		
MANA 354		4.08		.02	.09	*	.88	.05	.27	.11	.06	.14	*	.09	.20	.01		.39	.03	*	.05	.25	.23	.05	.12	.39	*	.47	.04	.02		.02	.10	
MANA AIRPORT 355		6.37				.11	.30	.33	.39	.05	.06	1.26	.08	.07	.48	.02	.14	.42	.30	.03	.12	.12	.18	.03	.30	T	.42	.74	.08	.18	.13	T	.03	
MANAHULI 281		4.13		.03			.65	.17	.13	.05		.13	.18	.12	.04	.03	.39	T			.35	.30	.38	.04	.16	.12	.23	.15	.04		T		.44	
MOLUA CABIN 259.5	A	.99	*	*	*	*	*	*	*	*	*	*	*	*	.62	T	*	*	*	*	*	.37	*	*	*	*	*	*	*	*	*	*	*	
MONOKOHAU 480	A	7.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.50	
MONOKOHAU 493	A	1.65		.03	*	*	.14	.10	.02			*	*	.02	.04			.28	*	*	.04	.02	.07	.15	.06	*	*	.38	.03	.04	.02		.21	
MONOHANJ GULCH 341	A	12.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.00	
NAANAPALI AIRPORT		.32	.10	.01			T											.01					.05	.02	.01	.01		.01				.10	
NAHOMA INTAKE 374	A	2.12	*	*	*	*	*	*	*	*	*	*	*	.02	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.12	
NAHULU #50 398	R	.48		T		T	.01	T							T			T			.01	T	T	.10	.03	.02	.02	T			.25	.01	
NAILILI 436	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
NAILUA 446		7.62				*	.42	.22	.58	.42	.01			.05	.33			1.10	.05		.43	.29	.48	.42	.69	.74	.04	.52	.11	.02	.07	.16	.47	
NAUALUA INTAKE 375	A	1.47	*	*	.04	*	*	*	*	*	*	.21	*	*	*	*	*	*	.11	*	*	*	*	*	*	1.05	*	*	*	*	*	*	.06	
NEAHUA 410		.78					T								.04			.02	.47				.01	.02	.06	.10		.02	.02				.02	
NEANAE 346	A	18.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*		*	*	18.20	*	
NEANAKAPU BEACH 200.2		.05		.04	.01																												
NIHEI 311		T	T													T			T								T						
NIPAHULU 258		4.89		.03			.73	.23	.13	.17				.6				.61			.40	.41	.40	.22	.13			.30	.41	.03				
KULA HEIGHTS 323.2		1.34														1.25			.08								.01						
KULA SANATORIUM 267		.35		.01	.02										.06	.02		.02	.10								.10					.02	
LAMAINA 381		.06	.06																														
LAUNIUPOKO INTAKE 376	A	2.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.20	
LAUNIUPOKO VILLAGE 372	A	.05																							.05								
LUPI UPPER 442	A	9.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.90	*	
MAMINAMINA 466	A	1.62	.02					.08										.10					.39	.42	.09	.10		.29	.03				.10	
NAKALELE -FLD 60-497	A	2.08	*	*	*	*	.08	*	*	*	*	*	.2	*	*	*	*	*	*	*	.75	*	*	*	*	*	*	.33	*	*	*	*	.72	
OLINDA 332	A	2.61	.07	.03	T	T	.02	.01	.01	.01	*	*	*	*	.05	.07	.01	.18	.48	*	.02	.02	.18	.06	.17	.51	.01	.32	.01	T	*	.11	.34	
OLOKALU 296		.01																															
OLOWALU GULCH 377	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.00	
PAAKEA 350		13.94					.78	.92	.75	.39	.10	.16	.03	.1	.39			1.10	.63		.68	.28	1.20	.87	.61	*	*	2.72	.31	.17	.19	.61	.87	
PAIA 406		.78					.03	.03	.03						.06			.02	.01				.08	.13	.13	.14	.01	.11	T	T				
PANILEIMULU 259.2	A	7.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.70	*	*	*	*	*	
POHAKEA BRIDGE 307.2	A	.21	.05	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	.10	
POLIPOLI SPRINGS 267.2	A	1.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.70	
PUOHOKAMOA 2 343	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU KUKUI MAKAI 472	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00	
PUUNENE 396		.11					T												.01						.06			.01				.03	
SPRECKELSVILLE 400.2		.54					.01		T						.05				.03				.01	.04	.08	.11	.03	.05	.01	T		.10	
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00	
UKUMEHAME 301	A	.00																															
ULUPALAKUA RANCH 250		.65	.02	.08	.02		.02								.32													.17				.02	
WAHIKULI 364	A	.02																							.02								
WAIEHU CAMP 484	A	1.34	*	*	*	*	.12	.06	*	*	*	*	*	.08	.16	*	*	.13	*	*	*	*	*	*	.05	*	*	.14	.13	*	.38	.02	.07	
WAIHEE VALLEY 482	A	1.98	*	*	*	*	.08	.04	*	*	*	*	*	.07	.23	*	*	.34	.10	*	*	*	*	*	.05	*	*	.20	.04	*	.55	.14	.14	
WAIKAMOI 449	A	11.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.80	*	
WAIKAMOI DAM 336	A	14.31	T	.07	*	*	.61	.37	.60	.17	.06	*	*	.12	1.13	.02	.01	1.42	*	*	.30	.21	1.65	.81	1.19	*	*	4.94	.11	.05	.01	.46	*	
WAIKAPU 390	A	.24	.01	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	.19	
WAILUKU 386		*			*	*	.02								.12			.03	*	*	.11				.05	*	*	.14	.02		.02	.02	*	
WAIOPAI RANCH 256	A	3.15	*	*	.07	*	.05								*	*	*	*	2.94											*	*	.09		
ISLAND OF HAWAII																																	
AMUA UMI 75	A	.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.60	
AWINI 182.1	A	5.54	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.14	*	*	*	*	*	*	*	*	*	4.40	*	*	*	*	
EAST HONOKANE 183.2	A	9.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.00	*	
HAINA 214		2.95					.65	.01	.07	.02	.10	.01						.10					.11	.30	.16	.73	.02	.06	.10	.01	.14	.03	.33	
HAKALAU 142		8.22				.01	.70	.30	.29	.41	.48	.20	.01					.05			.25	.14	.32	.58	.55	.76	.30	.84	1.25	.41	.05	.02	.30	
HALEMAUMAU 52	A	1.41	*	*	*	*	.21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	*	*	.86	*	*	*	*	.34	
HALEPIULA 117	A	1.67	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.67	
HALEPOHAKU 111	A	.22					.18		T	T												.02						.02						
HAWAII VOLCNS NP HQ 54		5.13			.05	.01	.52	.08	.06	.19	.12	.07	.01	T	.04	.02	T	.06	T		.20	.06	.64	.93	.47	.91	.01	.31	.09	.06	.17	.01	.04	
HAWI 168	A	2.56		.03	*	*	.11	.06	.17	.01								.41	*	*	.04	.01	.06	.69	.23	*	*	.14	.26	.30	.01	.03	*	
HILO COUNTRY CLUB 86.6		10.33					1.42	.43	.30	.43	.18	.23	.02								.80	.22	1.70	1.30	.53	1.40	.20	.90	.10	.10			.05	
HILO #50 87	R	8.44		T	T	.32	.49	.23	.43	.31	.25	.02	T	T	.01		T			.24	.08	.54	.73	.16	1.26	.22	.48	1.46	1.04	.05		.12	T	
HOLUALOA 70	A	7.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.08	*	*	*	
HOLUALOA BEACH 68	A	1.26			.34																				.92								
HONAUNAU 27		7.11	.02	.30	.15	.20	.10	1.60	.05	2.11	.13	.05	1.14	.02	.01					.02	.04	.02		.10	.50	.30	.10	.15						
HONOMINA 137		8.07				.01	.72	.53	.28	.52	.18	.16	.01		.20			.02			.32	.10	.75	.65	.67	.95	.16	1.00	.46	.06	.01		.31	
HONOKANE 181.1	A	6.66	.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.60	*	*	*	*	*	
HONOMU MAUKA 138		14.69				.07	1.36	.92	.37	.78	.86	.47			.06			.04			.40	.16	1.28	1.71	.83	1.79	.37	.88	1.06	.57	.01	.06	.64	
MONUAULA 71	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00	*	*	*	
HUALALAI 72	A	.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.64	*	*	*	
HUEHUE 92.1	A	.46	.25	*	*	*	*	.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.13	*	*	*	*	*	*	
KAALA IKI 12	A	4.86	.05	.01	.60	.02	.15	.05	T	.48	.04	.23	.15	.20				.15		.6	.11		.07							.04	.81		1.09	
KAAWALOA 29	A	2.73	.02	.05	*	*	.52	1.10	.13			*	*	.01				.02	*	*	.03		.10	.05		*	*	.70				T		
KAINALIU 73.2		4.24	.03	.14		1.00	.02	.71	.10	1.13			.21	.01		.03				.02			.28	.04					.50			.02	
KALAPANA NO 1 67.8		3.67	T	.33	.21	T	*	*	.34		T	.01	T		.21				.50	.03	.19	.06	.30	.34	.39	.49	.02	*	.25	*	T		T	
KAMAOA NO 2 5	A	3.49	*	*	*	1.00	*	*	*	*	*	*	1.11	*	*	*	*	*	.12	*	*	*	*	*	*	.58	*	*	*	*	*	*	
KAMUELA 192.2		1.15		.10	.32		.15	.05	.03	.02								.02					.13	.03		.06				.03			.68
KAMUELA AIRPORT 191		.69		.15	.36		.03	.04	.01			T						T	T		T	T	.03	.01		.04	T			T			.21
KAPAPALA RANCH 36	A	5.07	*	*	*	1.55	*	*	*	*	*	*	1.53	*	*	*	*	*	*	.35	*	*	*	*	*	*	*	*	*	*	*	*	.02
KAPOHO LANDING 93.5	A	7.71	*	.64	*	*	*	*	*	*	1.70	*	*	*	*	*	*	.70	*	*	*	*	*	*	2.18	*	*	*	*	*	*	2.49	*	1.64
KAWAINUI LOWER 193	A	6.60	*	.40	*	*	*	*	*	*	2.18	*	*	*	*	*	*	1.50	*	*	*	*	*	*	1.84	*	*	*	*	*	*	.68	*	
KEAAU 92		9.11				.01	1.08	.37	.29	.12	.75		.07	.02	.08				.01		.66	.20	.53	.83	.91	.89	.35	.92	.54	.29	.01		.18	
KEALAKEKUA 26.2		3.18	.02	T		.32	.06	.85	.23	.04	*	T	.04	T		.01				.18		T	.09	.01			.75	T			T	T	
KEMENA 181.2	A	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00	*	

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII OCTOBER 1970

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KIOLAKAA A E F 6	A	13.06	*	*	*	.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.06	*	*
KIPA 89.2	A	13.21				.10	1.14	.60	.17	.96	.42	.42	.12	T			.01		.02			.40	.14	1.23	1.72	.82	2.58	.56	.64	.65	.25	.12	.01	.13
KOHALA 179.1	A	2.80		.04	*	*	.19	.03	.22	.04	.01	*	*	.01					.42	*	*	.05	.02	.07	.73	.17	*	*	.18	.30	.13	.02	.17	*
KOHALA MAULILI 176	A	4.06	.01	.25	*	*	.26	.04	.12	.02	.02								.31	*	*	.14	.02	.22	.91	.31	*	*	.63	.31	.15	.16	.18	*
KOHALA MISSION 175.1		3.44		.19	.05		.23	.02	.18	.02	.01	T					.01	.52			.04	T	.10	.70	.30	.21	.06	.01	.32	.14	.07	.08	.18
KOIAWE LOWER 196	A	3.25	*	.20	*	*	*	*	*	*	1.01	*	*	*	*	*	*	.84	*	*	*	*	*	*	.98	*	*	*	*	*	.22	*	*
KONA (KAILUA) 68.3		.33	T					.03		.01													.28			*	*	.01					
KONA VILLAGE 93.8		02	.02																														
KUKAIAU 222		5.15	T				1.08	.05	.09	.13	.12	.02			.21			T			.03		.57	.62	.18	1.29	.04	.14	.03	.11	.07	.02	.35
KUKUIHAELE HIC 199		2.86					.31	.21	.07	.02	.01							.26					.18	.24	.10	.26	.24	.12		.08	.02		.74
KUKUIHAELE MILL 206	A	2.40			*	*	.25	.11	.10	.06	.01							.15					.15	.36	.06	*	*	.53	.03	.11	.04		.44
KULANI CAMP 79		5.20			.12	.01	.60	.22	.06	.12	.07	.08	.01	.04	.02	.09		.05					.46	.59	.45	1.00		.32	.17	.02	.21	.05	.08
KULANI MAUKA 76	A	1.51					.49														.26	.10	.46	.59	.45								
KULANI SCHOOL SITE 78	A	6.84	*	*	.60	*	*	*	*	*	*	.40	*	*	*	*	*	*	.14	*	.02	.22	.08	.05	.41		.06	.10		.08			
LANIHAU 68.2		2.52		.16		.06		.06		.87			.99			.06	.20				*	*	*	*		2.60	*	*	*	*	*	*	3.10
MANUKA 2	A	.79		.33	*	*	T		T	.27	.07	*	*	T	.04							.05						.07					
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T		*	*									.08			*
MAUNA LOA SLOPE ORS		.36		.02		.02	.06											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MIDDLE HOLUALOA 68.1	A	2.14	*	*	.53	*	*	*	*	*	*	*	*	*	*	*	*	*	1.29	*	*	.32	*	*	*	*	*	*	.26	*	*	*	*
MIDDLE PEN 147.1	A	.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	*	*	*	*	*	*	*
MOAULA 18	A	3.17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.17
MOUNTAIN VIEW 91		10.20				.03	1.48	.37	.24	.26	.43		.10	.03	.11			.18			.41	.04	1.03	1.64	.96	.91	.36	.96	.40	.08	.02		.16
NAALEHU 14	A	3.70	.06	.16	.02	*	.23	.16		.40	.02	.22	.02	.13	.11	T		.04	T		.09			T				.13				1.91
NAPOOPOO 28	A	2.79	*	*	*	*	.38	*	*	*	*	*	*	2.05	*	*	*	*	*	*	.20	*	*	*	*	*	*	.16	*	*	*	*	*
NAULU FOREST 38.6		2.39	T	.35	.03	T	*	*	.23		T	.02			.11	T		*	.07	T	.49	.23	.19	T	.50	.10	.02	*	.05				T
NIULII 179	A	2.54		.03	*	*	.20	.05	.10	.10	.05	*	*	.03				.47	*	*	.03		.05	.42	.35	*	*	.20	.25	.17	.03	.01	*
OOKALA 223		6.19	.07	.13		.01	.93	.13	.04	.18	.20	.25	T		.50	.01		.03			.09		.46	.67	.33	1.21	.07	.16	.12	.11	.04	T	.45
OPIHIHALE 2 24.1		2.01	T		.20	.66	.07	.71	.03	.04	T	.15	T	.01			.01		.02							.05	.04					T	.02
ORCHID LAND EST 91.5	A	8.74	*	.29	*	*	*	*	*	*	2.15	*	*	*	*	*	*	.22	*	*	*	*	*	*	2.92	*	*	*	*	*	3.16	*	*
PAAUHAU 217		3.14					.74	.01	.04		.06	.04						.06					.11	.29	.13	.72	.09	.07	.08		.26		.44
PAAUILO 221		4.52	T				1.13	.05	.05	.09	.08	.03			.33						T		.59	.45	.12	.95	.04	.10	.04	.04	.02		.41
PAHALA 21		*			*	*	.37			.20		*	*	.82			.02	.09												.02	.08		*
PAHOA 65		9.72				.02	1.28	.35	.07	.26	.23		.11	.03	.26	.03		.05	.10		.80	.22	.56	.84	.45	.80	.31	.84	1.16	.64	.07	.04	.20
PAKAO 37	A	7.24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.24
PAPAIKOU 144.1		10.09			.01	.13	1.05	.48	.16	.53	.36	.06	T	.06	.02	.01					.21	.05	.86	.74	.53	.73	.26	.81	1.64	1.23		.07	.09
PAPAIKOU MAUKA 140.1		11.78				.17	1.15	.57	.19	.24	.43	.58	.04	.01	.04						.32	.05	1.42	1.28	.89	2.13	.35	.48	.60	.62	.02	.03	.17
PEPEEKEO MAKAI 144		9.46			.01	.03	.92	.44	.28	.48	.20	.14	*	.10	.02			.05			.23	.18	.59	.98	.62	.78	.45	.70	1.05	1.13	.01		.07
PIIHONUA 89	A	12.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.04	*
POHAKULOA 107	A	.00																															
PUAKO 95.1	A	.02		.01	.01																T			T									
PUU KIHE 120	A	1.86	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.86
PUU LAAU 102.1	A	.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.40
PUU LEHUA 73	A	1.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.30
PUU MALI 113	A	.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.65
PUUOKUMAU 167	A	3.58	.16	*	*	*	*	*	*	.43	*	*	*	*	*	*	.01	*	*	*	*	*	*	1.82	*	*	*	*	*	*	1.16	*	*
PUU OO 82		5.11	.35	.01	.03	.08	.71	.08	.03	.22	.22	.05	.04	.11	.05	.12		.12	.08	T	.27	.28	.42	.44	.16	.67	T	.24	.03	.02	.12	.02	.14
PUU WAAWAA 94.1	A	.63	.52													.04							.07										
SADDLE ROAD 1 84	A	13.06	*	2.40	*	*	*	*	*	*	2.74	*	*	*	*	*	*	.43	*	*	*	*	*	*	4.75	*	*	*	*	*	*	2.74	*	*
SOUTH POINT CORRAL 3	A	3.21	*	*	*	.62	*	*	*	*	*	*	.24	*	*	*	*	*	.15	*	*	*	*	*	*	.23	*	*	*	*	*	*	1.97
UMIKOA 118		3.70	.04	.01		*	.64	.12	.09	.13						.25		.04			.02		.36	.06	.05	*	*	.92	.51	.20	.10	.11	.05
UPOLU POINT USCG 159.2		1.59			.10		.04	.01	.02	T								.13			.04	T	.13	.70	.10			.07	.25				
WAIAKEA SCS 88.2		8.88					1.63	.44	.10	.34	.40	.10	.05	.01								.60	1.11	1.00	.67	1.01	.03	.59	.70	.03		.02	.05

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN 02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO, HAWAII, WB AIRPORT	19	1.0	6.1	19	E	01	84	72	67	83	6	4	11	2	3	0	26	41	7.6
HONOLULU, OAHU, WBFC	5	8.6	11.8	27	NE	23	77	74	60	71	7	11	3	1	0	0	22	70	6.6
KAHULUI, MAUI, WB AIRPORT	5	9.4	12.4	30	E	21+	81	76	58	78	8	8	2	0	0	0	18	73	6.0
LIHUE, KAUAI, WB AIRPORT	5	7.8	11.8	26	SW	01	80	76	68	77	8	11	6	1	0	0	26	44	7.2

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
• • •																																	
ISLAND OF KAUAI																																	
KANALOHULUMULU 1075	MAX	66	67	74	78	73	72	73	71	72	71	72	73	70	72	72	72	70	72	70	72	71	70	68	70	70	71	69	70	66	68	64	70.6
	MIN	60	59	62	63	58	55	57	55	52	49	46	45	46	46	46	48	50	59	57	58	55	57	58	56	55	59	58	57	47	52	52	54.1
KILAUEA POINT 1133	MAX	83	83	85	83	84	82	85	81	82	83	85	83	84	83	83	82	83	83	81	82	80	81	80	81	80	82	82	82	82	82	82	82.4
	MIN	75	72	77	75	75	75	74	75	74	72	75	72	72	73	74	72	73	74	76	75	75	71	75	71	73	73	73	72	68	68	70	73.2
LIHUE WSO 1020.1	MAX	85	86	86	84	84	84	84	84	84	83	84	83	84	83	83	83	84	83	83	84	83	81	84	83	83	84	83	82	82	80	83	83.4
	MIN	73	75	73	75	77	75	76	76	76	72	69	68	69	71	70	72	71	76	79	76	78	74	75	75	74	75	74	71	69	72	67	73.3
MAKAHUENA POINT 940.1	MAX	83	88	85	88	83	82	85	86	84	82	84	83	84	85	87	84	84	89	87	85	85	81	85	82	85	78	82	87	83	83	83	84.3
	MIN	70	72	70	71	70	70	72	71	70	70	74	66	69	71	70	75	63	74	77	73	72	70	70	72	70	71	71	70	67	73	69	70.7
MANA 1026	MAX	85	85	83	85	87	89	89	87	87	85	86	87	87	88	87	88	87	89	88	88	88	85	90	89	88	88	89	89	87	85	87	87.2
	MIN	67	71	71	69	66	66	69	65	66	67	69	67	64	67	67	67	66	66	67	67	65	63	64	65	64	64	66	66	64	66	65	66.3
NIU RIDGE 1035	MAX	80	79	80	80	82	80	81	83	80	84	83	85	83	83	80	83	82	81	83	80	82	81	83	83	83	82	83	80	79	80	81	81.6
	MIN	65	60	60	63	63	61	62	60	63	60	62	61	59	62	60	61	61	62	63	60	60	63	60	62	63	61	63	62	60	60	61	61.4
WAIAHI LOWER 1054	MAX	82	84	81	84	83	81	82	82	81	83	83	83	83	85	84	85	84	83	79	83	78	79	78	78	78	81	81	78	80	80	79	81.5
	MIN	67	68	69	67	67	67	66	65	63	64	60	59	59	61	62	67	65	67	71	70	66	66	68	67	68	67	64	65	59	60	66	65.2
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ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	83	83	85	84	85	83	84	84	83	85	85	85	85	87	85	86	86	87	84	86	84	81	84	83	83	83	83	84	85	82	82	84.2
	MIN	69	70	71	70	70	69	69	69	68	68	69	67	66	66	66	70	67	66	70	71	69	71	70	69	68	69	68	67	69	65	64	68.4
HONOLULU WSFC 703	MAX	82	83	86	87	85	86	86	85	85	84	87	87	88	87	87	86	85	87	86	85	80	84	84	84	85	85	85	86	83	83	84	85.1
	MIN	69	72	72	74	73	73	73	74	74	71	69	70	70	71	71	72	70	73	75	74	73	73	71	73	73	73	72	71	69	68	69	71.8
HONOLULU SUBSTA 704	MAX	80	81	83	85	83	82	83	83	82	81	81	82	85	83	83	82	81	84	83	82	78	82	81	82	82	81	80	81	80	78	80	81.7
	MIN	70	71	73	75	74	75	74	75	74	74	72	74	74	74	74	75	72	75	77	75	74	72	74	73	73	73	72	73	70	71	69	73.3
KAHUKU 912	MAX	87	83			85	84	84	84	84			84	84	82	87	84			84	84	83	80	82			84	83	83	83	82		83.6
	MIN	69	71			72	74	75	74	71			66	67	69	74	71			65	71	72	74	71			71	72	72	68	70		70.9
KANEOHE MAUKA 781	MAX	86	79	81	86	82	81	83	82	82	82	81	82	82	80	85	84	83	85	82	83	82	77	83	82	80	82	81	80	80	79	79	81.8
	MIN	73	74	72	73	74	69	71	71	72	70	68	69	69	70	72	70	69	71	71	72	72	71	70	71	70	71	70	67	68	68	67	70.5
LUALUALEI 804	MAX	87	83	83	90	91	86	87	87	87	87	86	86	85	87	86	86	84	88	87	87	85	84	85	85	84	87	87	87	87	83	84	86.1
	MIN	69	74	74	74	73	73	73	74	74	76	74	68	68	68	69	72	69	72	68	73	74	75	71	76	76	73	73	70	72	68	70	72.0
MAKAPUU POINT 724	MAX	82	81	83	84	80	79	79	80	78	79	78	79	80	80	82	80	80	80	78	81	79	76	79	78	78	78	78	79	79	77	77	79.4
	MIN	71	70	73	73	71	70	69	73	70	70	69	70	72	70	70	72	70	70	70	70	71	69	67	74	71	71	70	69	70	70	68	70.4
OPAEULA 870	MAX	82	78	75	83	82	78	81	81	80	81	80	83	81	81	86	84	80	85	80	80	79	75	78	76	79	79	79	79	80	77	78	79.9
	MIN	62	62	68	68	69	66	65	66	66	63	62	63	63	63	65	64	65	68	70	68	68	68	67	66	68	68	66	65	65	64	62	65.6
PRI WAHIAWA 820.2	MAX	88	81	82	88	88	82	83	85	85	84	82	84	84	85	87	87	84	88	88	86	85	79	84	82	82	84	82	82	83	81	78	84.0
	MIN	60	67	69	68	68	66	65	66	66	64	63	63	64	63	63	64	63	66	63	70	68	70	68	69	70	67	66	64	65	64	62	65.6
WAIALUA 847	MAX	85	85	85	86	86	84	86	86	85	87	85	87	87	87	87	88	82	89	85	88	86	79	85	83	83	84	85	84	85	83	80	85.1
	MIN	66	70	73	71	68	65	65	65	65	66	64	63	61	63	65	65	70	67	69	69	66	66	66	69	70	68	65	64	65	64	65	66.4
WAIKIKI 717.2	MAX	89	87	83	87	88	86	88	82	87	87	87	87	87	86	86	89	88	89	85	88	89	84	87	86	87	88	88	88	89	85	83	86.7
	MIN	72	73	73	73	73	72	73	73	74	68	67	67	70	68	69	73	68	72	72	74	73	75	73	75	74	73	71	67	68	66	67	71.2
WAIMANALO EXP FARM	MAX	88	84	80	83	84	83	84	84	84	85	84	85	84	85	85	83	85	85	82	83	83	79	82	82	83	83	83	83	84	81	82	83.4
	MIN	70	73	72	70	74	71	73	74	75	71	73	74	70	74	72	72	66	72	75	73	72	72	73	72	72	73	73	72	70	70	69	72.0
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ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	87	85	85	85	85	84	83	83	83	83	84	83	83	88	86	84	85	84	84	83	83	78	83	81	81	81	80	82	81	79	79	83.1
	MIN	67	71	74		73	73	73	67	73	72	71	71	71	63	69	70	73	76	72	72	72	72	70	70	75	70	70	71	71	69	70	71.0
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ISLAND OF LANAI																																	
LANAI CITY 672	MAX	82	79	79	79	81	79	78	78	79	79	77	78	78	80	82	78	80	78	78	80	79	76	77	76	78	78	77	79	78	77	72	78.4
	MIN	68	68	66	64	68	66	64	67	67	67	63	67	66	67	64	68	63	63	67	66	68	66	67	67	63	67	66	64	67	65	64	65.9
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ISLAND OF MAUI																																	
HALEAKALA RS 336	MAX	64	63	62	66	65	68	67	63	62	61	60	62	59	62	65	66	63	59	64	68	62	66	64	61	64	62	60	62	62	61	60	63.0
	MIN	46	44	45	46	49	47	43	43	42	40	39	40	41	42	45	46	47	46	52	51	50	52	47	41	49	48	47	45	40	38	43	45.0
HALEAKALA SUMMIT 338.4	MAX	55	54			55	58	58	59	60			62	58	59	59	60			58	57	55	57	57			53	52	52	58			
	MIN	40	40			42	44	46	46	45			43	43	43	44	43			42	42	42	42	38			39	39	41	41			
HANA AIRPORT 355	MAX	87	87	86	86	85	82	80	84	85	82	84	83	84	85	84	83	83	83	84	83	80	81	77	63	83	82	82	82	82	81	81	83.0
	MIN	67	67	67	69	72	69	68	69	68	68	68	69	67	70	70	71	73	74	72	71	73	69	71	73	68	71	70	68	65	64	67	69.3
KAANAPALI AIRPORT	MAX	85	84	85	85	87	87	85	85	86	86	85	85	85	86	87	85	85	82	85	85	85	82	83	81	84	84	83	82	84	82	80	84.4
	MIN	73	74	73	69	71	72	71	73	71	69	68	68	70	70	70	72	71	72	71	74	71	72	69	72	73	70	71	68	66	67	68	70.6
KAHULUI WSO 398	MAX	88	89	92	91	90	87	85	89	88	86	87	87	89	90	89	88	84	89	89	88	86	86	84	86	86	87	84	85	84	84	84	87.1
	MIN	74	75	70	65	74	73	72	73	68	67	64	65	66	65	64	71	68	69	70	69	73	73	71	72	73	73	72	69	66	64	64	69.4
KAILUA 446	MAX	81	82	82	82	80	80	79	79	78	80	80	81	80	81	80	80	78	79	79	78	78	74	76	73	78	78	78	78	78	79	79	79.0
	MIN	66	67	68	70	69	68	66	68	68	67	66	66	66	67	68	68	68	67	64	69	69	69	68	68	68	69	68	65	64	64	63	67.1
KEAWAKAPU BEACH 260.2	MAX	89	89	88	91	92	91	89	86	88	93	86	85	90	86	90	90	88	88	85	93	92	95	88	92	90	94	90	85	87	86	85	89.1
	MIN	73	73	68	66	67	66	65	66	64	66	64	65	65	66	65	72	69	69	70	66	64	68	66	64	63	66	66	62	60	63	68	66.3
KULA SANATORIUM 267	MAX	75	76	73	71	76	75	73	73	72	74	72	75	72	71	73	75	72	74	72	75	77	74	74	75	74	75	72	71	73	71	70	73.4
	MIN	59	60	60	59	60	60	61	60	59	59	58	59	59	58	59	60	62	61	59	60	58	58	58	58	57	58	58	57	58	58	57	58.9

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	86	86	87	87	87	88	88	85	86	87	87	87	86	88	88	89	87	89	88	87	88	87	89	89	88	89	87	83	86	84	83	87.0
	MIN	73	70	73	69	74	70	69	68	68	68	68	69	69	70	69	72	69	71	72	72	69	67	70	67	67	71	69	67	67	66	65	69.3
WAILUKU 386	MAX	85	87			86	84	82	81	81			83	82	84	85	82			84	84	83	82	82			81	81	79	81	80		82.7
	MIN	72	74			71	73	71	73	73			70	70	73	73	73			70	73	72	73	71			71	72	70	67	67		71.5
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	85	81	85	84	85	83	85	84	83	84	83	84	83	84	83	82	83	82	85	83	78	82	80	78	78	84	80	79	81	81	80	82.3
	MIN	68	69	68	67	66	69	68	68	66	67	67	63	67	65	65	65	66	67	70	70	69	68	68	68	68	67	66	64	65	64	66	67.0
HAWAII VOLCNS NP HQ 54	MAX	74	75	67	72	73	69	71	69	69	69	67	68	72	72	73	74	71	72	73	70	64	68	63	69	69	72	64	69	71	70	71	70.0
	MIN	53	58	53	55	58	57	56	56	55	55	56	54	56	54	53	52	52	54	57	58	56	56	56	55	56	56	56	53	53	50	54	54.9
HILO WSO 87	MAX	89	87	86	86	84	84	83	81	83	82	84	83	87	87	84	86	86	86	83	81	82	82	83	81	84	80	83	83	81	82	82	83.7
	MIN	65	66	68	65	71	70	70	69	69	66	68	67	68	65	66	66	66	68	67	68	66	69	68	67	65	67	66	63	62	64	65	66.8
KAINALIU 73.2	MAX	80	78	80	78	80	80	78	80	78	81	75	78	80	80	80	81	82	80	80	81	77	78	81	79	81	80	75	77	81	79	79	79.3
	MIN	63	65	65	65	65	65	64	65	63	63	65	62	63	63	61	65	64	65	65	64	66	64	65	63	62	64	64	63	63	60	60	63.7
KAMUELA 192.2	MAX	78	77	78	74	76	74	75	73	73	74	75	74	75	81	78	74	80	76	80	75	70	73	71	72	70	71	73	72	76	74	79	74.9
	MIN	58	54	57	60	61	61	60	60	61	61	61	59	54	55	56	55	58	56	56	60	58	60	60	60	59	61	60	59	54	50	53	58.0
KAMUELA AIRPORT 191	MAX	79	79	77	78	76	76	75	74	75	75	75	75	75	79	78	74	78	75	79	76	74	75	73	73	72	75	70	72	76	75	73	75.4
	MIN	52	55	53		63	59	57	59	59	51	52	56	49	53	50	54	54	51	56	54	54	59	56	55	52	52	54	54	49	47	57	54.2
KEAAU 92	MAX	86	86	83	83	85	82	82	81	78	82	81	81	82	83	81	83	84	84	84	83	78	80	80	79	80	80	78	80	80	80	81	81.6
	MIN	66	63	67	66	68	68	68	67	67	67	67	66	67	65	65	66	67	67	67	68	66	68	67	67	66	67	67	65	64	64	65	66.4
KEALAKEKUA 26.2	MAX	80	78	81	78	79	78	78	80	77	79	76	79	81	81	80	80	81	77	80	81	78	78	81	78	81	79	74	77	78	79	78	78.9
	MIN	64	67	65	66	66	66	65	66	65	65	66	64	64	65	63	65	64	65	65	66	67	65	65	64	65	64	64	64	64	62	61	64.7
KOHALA MISSION 175.1	MAX	82	82	82	82	83	80	82	80	81	81	80	82	81	84	82	81	82	81	82	81	78	78	77	78	79	80	78	79	80	78	80	80.5
	MIN	65	67	68	69	69	69	68	68	67	65	67	67	66	67	67	66	67	67	69	70	70	69	67	68	69	69	68	65	65	64	65	67.3
KONA (KAILUA) 68.3	MAX	85	84			86	85	87	86	87			87	86	86	86	85			88	86	85	85	87			87	81	86	86	84		85.7
	MIN	71	72			71	71	72	71	70			68	70	73	70	72			72	74	71	70	72			71	71	68	70	69		70.9
KULANI CAMP 79	MAX	69	72	70	69	67	68	64	65	64	61	61	61	65	67	67	68	68	68	67	65	60	59	59	61	64	65	69	62	65	59	64	64.9
	MIN	43	55	50	48	55	53	58	52	51	49	51	48	51	44	41	43	48	45	53	52	50	50	52	54	49	52	52	49	47	44	45	49.5
MAUNA LOA SLOPE 08S	MAX	56	55	54	55	56	56	56	56	57	54	54	53	54	54	55	54	51	55	58	60	60	56	55	56	52	47	45	48	50	48	53	54.0
	MIN	36	39	38	40	39	37	39	39	40	38	41	38	37	38	36	36	35	41	40	40	41	39	38	38	34	35	35	30	32	32	32	37.2
MOUNTAIN VIEW 91	MAX	82	82	81	81	81	79	77	76	73	78	78	78	79	80	80	80	83	83	83	78	75	74	74	82	82	82	78	76	77	78	79	79.0
	MIN	62	63	60	60	60	64	63	63	63	61	61	61	61	58	58	60	61	61	61	63	60	64	63	74	78	78	60	59	58	57	58	62.4
NAALEHU 14	MAX	81	81	81	82	82	77	82	80	78	78	81	81	82	80	80	81	81	81	81	81	77	79	79	79	81	81	79	81	81	80	80	80.3
	MIN	68	68	68	68	68	67	67	68	69	69	66	66	69	68	68	69	69	68	68	72	70	70	71	71	68	68	68	65	65	66	66	68.1
OOKALA 223	MAX	81	80	84	82	83	82	81	80	80	82	82	82	82	83	81	81	81	81	83	84	75	82	81	81	80	81	78	78	80	81	80	81.0
	MIN	63	67	68	68	68	68	68	68	67	68	66	67	65	66	67	68	67	69	70	69	67	69	67	67	67	67	67	67	65	65	65	67.1
OPIHIHALE 2 24.1	MAX	77	86	79	79	79	77	79	78	75	74	80	77	81	83	78	82	77	83	82	77	76	80	77	79	78	74	78	78	78	79	79	78.7
	MIN	63	64	65	64	64	63	64	63	62	63	63	61	61	60	59	62	62	63	63	65	62	62	62	63	62	62	60	60	59	58	58	62.0
PAHALA 21	MAX	82	82			83	81	81	82	81			82	83	81	82	83			83	83	80	82	82			84	82	82	83	81		82.0
	MIN	60	63			62	65	66	64	64			62	62	62	62	62			63	68	63	66	68			61	64	61	61	63		63.3
PUAKU 95.1	MAX	88	85	87	88	88	89	90	88	88	87	88	87	89	86	87	86	88	84	88	90	84	86	87	87	89	87	85	87	88	85	88	87.2
	MIN	71	70	71	70	70	74	74	72	72	70	72	69	69	66	69	67	70	72	71	72	70	70	72	70	71	71	74	70	69	67	67	70.4
UPOLU POINT USCG 159.2	MAX	86	88	89	84	85	85	84	81	84	83	84	84	83	89	85	83	87	85	83	85	82	82	81	80	83	81	80	80	83	83	81	83.6
	MIN	72	73	73	69	71	70	70	72	71	66	70	70	70	71	71	71	70	71	72	71	70	71	69	71	70	70	70	69	70	68	70	70.4

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.28	.46	.29	.30	.32	.36	.27	.26	.35	.28	.25	.39	.23	.27	.26	.25	.21	.23	.21	.23	.33	.21	.19	.43	.27	.25	.28	.25	.14	.24	.18	8.47
	WIND	119	158	123	86	181	177	163	172	187	131	103	102	98	110	69	123	77	62	139	205	252	262	229	306	207	189	146	135	77	115	70	4579
	MAX	88	82	84	89	86	85	85	86	85	84	85	85	85	85	89	82	86	86	87	79	84	78	78	83	84	82	85	84	81	83	80	84.0
	MIN	64	68	68	69	67	67	67	66	66	66	67	62	63	63	65	65	65	66	69	68	67	66	66	66	66	66	66	65	62	62	61	65.6
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.21	.14	-	.20	.25	.19	.25	.23	.20	.21	.23	.19	.17	.25	.23	.27	.16	.15	.19	.22	.34	.15	.30	.23	.21	.23	.22	.22	.20	.16	.16	6.578
	WIND	30	64	36	23	36	31	32	27	26	23	19	19	20	25	23	16	21	14	19	40	39	38	47	44	36	29	27	23	21	13	19	880
	MAX	94	81	71	95	91	87	92	88	86	88	86	89	87	90	91	87	88	88	83	88	90	84	88	85	88	87	87	86	88	81	80	86.9
	MIN	68	70	59	70	69	68	68	67	66	66	64	64	64	66	67	68	67	67	68	69	69	66	67	65	67	68	66	67	67	64	63	66.6

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BR DESWOOD STA 989	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1	0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	A 1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A 2 22	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	380		8A			KILAUEA SUG PLTN CO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	NATL WEATHER SERVICE
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6 82	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M M 1001	6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARM COMPANY
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A		C	PRINCEVILLE RANCH
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARM CO LTD
RESERVOIR 6 1004	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A 8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 77192	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
HOA LOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1910	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WSFC 703	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	NATL WEATHER SERVICE
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	NATL WEATHER SERVICE
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800				C	WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	OAHU	1	21 19	157 41	1380				C	CLOSED 2/11/70
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A 3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KO LA DAM 833	4768	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDG
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113	7A	7A			USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A 5650	04	WAIANAE	4	21 29	158 08	1500					U S NAVY
LULUKU	5655	01	KOOLAUPOKO	1	21 24	157 49	240					MILNOR LOM
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7			LUNALILO HOME
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7			HAROLD ROBERTS
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8			CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5810	02	HONOLULU	2	21 19	157 39	538	8A	8			U S COAST GUARD
MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240					CLARENCE LEE
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410					EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A			WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A			PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900					JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000					BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A			WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			ALFRED J. PRATT
WAIANAE MAUKA 803	A 9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836	A 9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	18				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 790	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	110		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	7				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560					MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	2		8A			H S P A
MAUNALOA 511	A 6190	01	MOLOKAI	1	21 08	157 13	107		9A		C	DOLE COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUKOO KAI 545.1	8221	01	MOLOKAI	1	21 05	156 48	10				C	MISS MIRIAM DAVIS
PUUOHOKU RANCH 547.1	8549	01	MOLOKAI	1	21 09	156 44	70		6A		C	PUUOHOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	355				C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	165				C	DOLE COMPANY
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370					ST. DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430					DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LKHEED SP & MSLE DIV
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690					PHIL SCOTT
HALIIMAILE 423	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1087	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1127	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	1882	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	1887	04	LAHAINA	4	21 00	156 39	135		6			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8	8			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WSO 398	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8	8		S	A. L. CORELL
KIHEI 311	448	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO
NAKALELE FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	6		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	216				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 874	03	MAKAWAO	3	20 46	156 23	131		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	523					HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	190		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	58		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	32		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	30		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	120					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386	9484	03	WAILUKU	3	20 54	156 30	180	7	7			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		VAR			KOHALA DITCH CO LTD
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1520		VAR		C	HILO COUNTRY CLUB
HILO WSO 87	R 1492	02	S HILO	2	19 43	155 04	27	MI	MID	MID	C J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HOLUALOA MAKAI 69.16	1570	04	HAWAII	4	19 38	155 58	1040				C	SID WEINRICH
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		VAR			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1340		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	29		VAR			BOARD OF WATER SUPPLY
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	145	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	149					MAUNA KEA SUGAR CO.
KOHALA 179.1	4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA (KAILUA) 68.3	4764	04	N KONA	4	19 39	156 00	30	8	8A		C	STANDARD OIL CO OF CAL
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	5018	05	N HILO	5	19 35	155 27	8300				C	MAUNA LOA OBS.
KULANI SCHOOL SITE 78	5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAHILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8			KONA EXPERIMENT STATION
MANUKA 2	6134	03	KAU	3	19 07	155 50	1760		8			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103		8			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	MI	MI			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	6268	04	N KONA	4	19 37	155 58	475		8			KONA EXPERIMENT STA
MIDDLE PEN 147.1	6270	01	N KOHALA	1	20 06	155 50	1380		VA			KAHUA RANCH
MOAULA 18	6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6	6			PUNA SUGAR CO
NAALEHU 14	658	03	KAU	3	19 04	155 35	673	8	8			HUTCHINSON SUGAR CO

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
NAPOOPOO 2B	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6800	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 85	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO, INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. RAPP
PUU KIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	03	HAMAKUA	3	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4580					GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUKUHAU 167	A 8548	06	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A		C	DON WINTERS
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8678	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCD 88.2	9028	02	S HILO	2	19 40	155 08	1050		7A			SHIMIZHI KANESHIRO
WAIKANONULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ↕	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP	PRECIP	EVAP	SPECIAL (SEE NOTES)	OBSERVER

↕ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS- Unless otherwise indicated, dimensional units used in this bulletin are Temperature in F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speede divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan ee recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry

\+ And also on an earlier date or dates.

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month

J "Supplemental Data" table

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometere are exposed in a shelter located on the roof of a building.

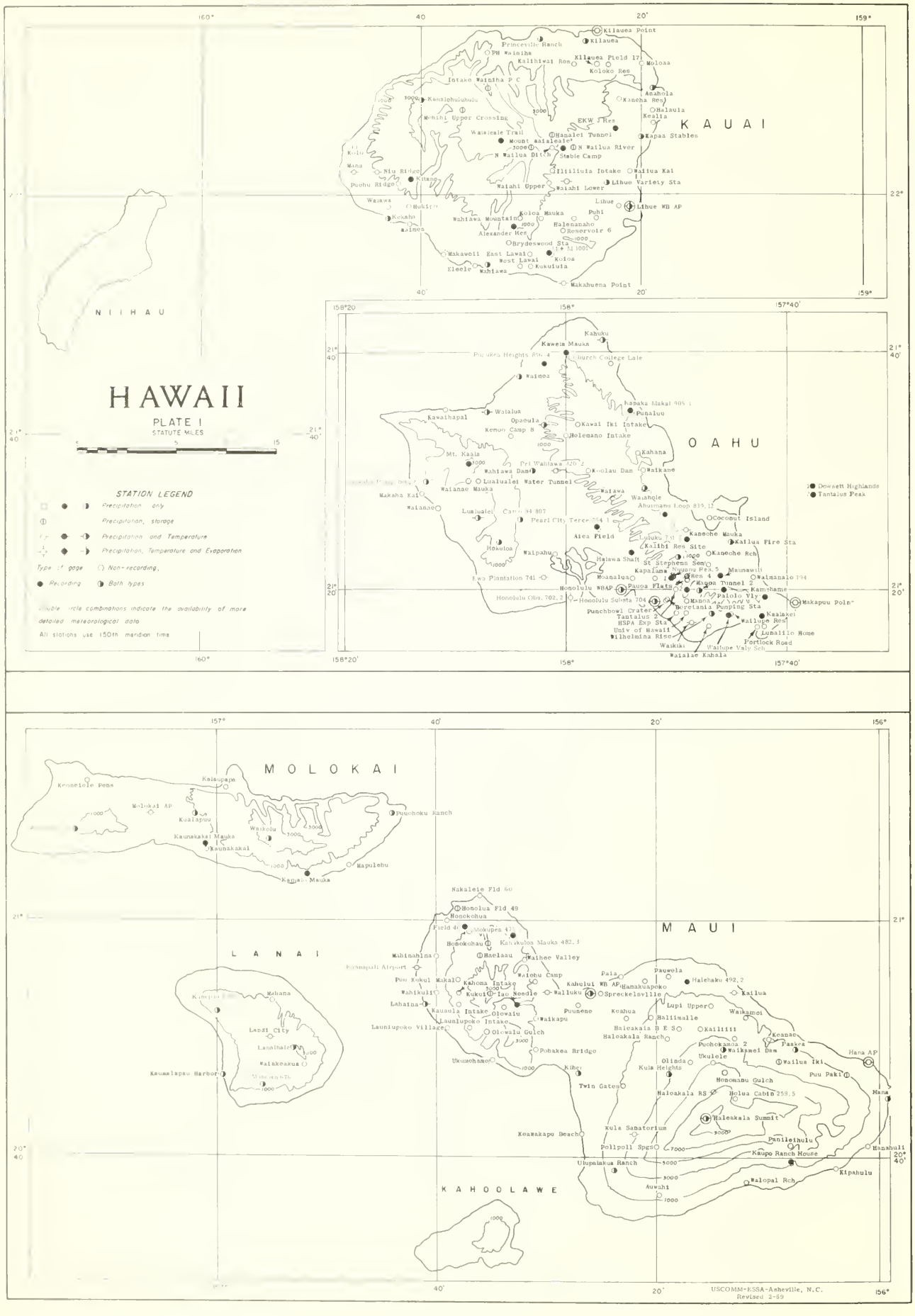
Stations appearing in the tables with no data were either missing or received too late to be included in this issue

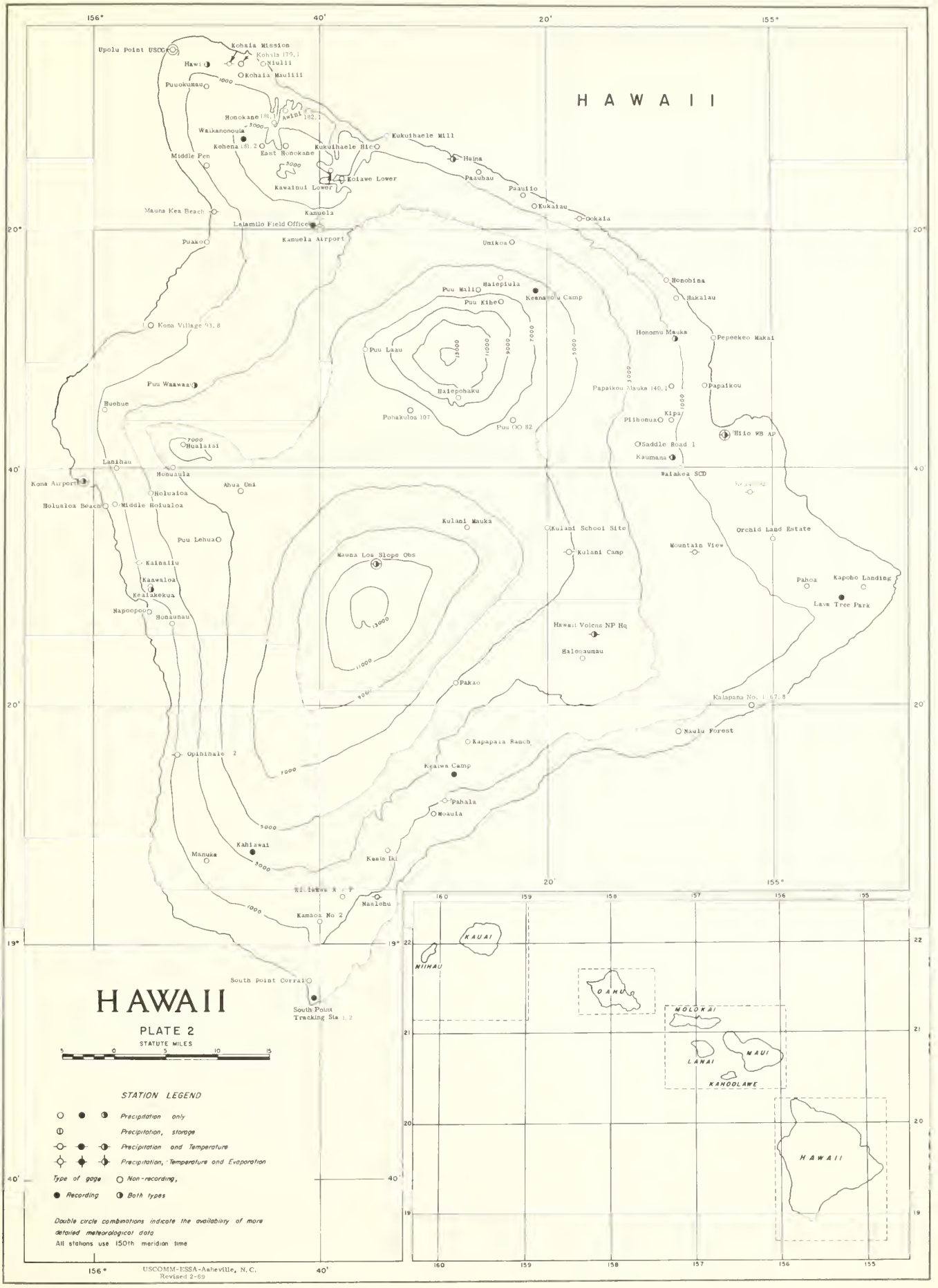
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price - 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-NOAA-ASHEVILLE-2/2/71-890


HAWAII
PLATE I
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
Kilauea Point
Princeville Ranch
Kilauea
PH Waioiha
Kalihiwai Ros
Kilauea Field 17
Moloaa
Koloko Res
Intake Waiohia P C
Anahola
Kaneha Res
Halaula
Kealia
Kapaa Stables
EKW J Res
Hanalei Tunnel
Waialeale Trail
Mount Waialeale
N Wailua River
N Wailua Ditch
Stable Camp
Iliiliiula Intake
Waiiua Kai
Lihue Variety Sta
Lihue
Lihue WB AP
Niu Ridge
Kilauea
Puohu Ridge
Waiahi Upper
Waiahi Lower
Waiawa
Hulili
Kekaha
Waimea
Koloa Mauka
Puhi
Wahiawa Mountain
Halenanaho
Alexander Res
Reservoir 6
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Kukuiula
Eleele
Wahiawa
Makahuena Point
Kahuku
Kawela Mauka
Church College Lale
Waimea
Kapaka Makai 405.1
Punaluu
Kawailoa
Kawaihapal
Opaeula
Kawai Iki Intake
Kemoo Camp B
Holemano Intake
Kahana
Mt. Kaala
Wahiawa Dam
Knoolau Dam
Waikane
Waialua
Waialee Mauka
Lualualei Water Tunnel
Makaha Kai
Waianae
Waianae Mauka
Waiahole
Ahuimanu Loop 839.12
Coconut Island
Lualualei
Pearl City Terce 764.1
Kaneohe Mauka
Kailua Fire Sta
Aiea Field
Kailua Res Site
Kaneohe Rch
Waipahu
Halawa Shaft
St Stephens Sem
Ewa Plantation 741
Kapalama
Nuuanu Res 5
Nuuanu Res 4
Maunawili
Waimanalo 734
Moanalua
Honolulu WBAP
Pauoa Flats
Manoa Tunnel 2
Kamehame
Honolulu Obs. 702.2
Honolulu Substa 704
Beretania Pumping Sta
Punchbowl Crater
Tantalus 2
HSPA Exp Sta
Univ of Hawaii
Wilhelmina Rise
Waikiki
Waialae Kahala
Wailupe Res
Lunalilo Home
Portlock Road
Wailupe Valy Sch
Makapuu Point
Kaalakei
Dowsett Highlands
Tantalus Peak
Keoneloele Pens
Kaiaupapa
Molokai AP
Kualapuu
Puuohoku Ranch
Kaunakakai Mauka
Waikolu
Kaunakakai
Mapulehu
Kenpaio Mauka
Nakaleie Fld 60
Honolua Fld 49
Honokohua
Mokupea 47
Field 40
Kahakuloa Mauka 482.5
Honokohau
Mahinahina
Haelaau
Waiehu Valley
Kahoma Intake
Waiehu Camp
Kahului WB AP
Hamakuapoko
Spreckelsville
Paia
Pauwela
Halehaku 492.2
Kailua
Waikamoi
Lupi Upper
Kahului Airport
Puu Kukui
Makai
Wahikuli
Kukui
Iao Needle
Walluku
Lahaina
Kauaula Intake
Olowalu
Puuneno
Keahua
Halimalle
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Waikapu
Haleakala B E S
Kailiiii
Haleakala Ranch
Keanae
Puohokama 2
Waikamoi Dam
Paakea
Hana AP
Ukumehame
Pohakea Bridge
Olinda
Ukulele
Wailua Iki
Kula Heights
Kihei
Puu Pakii
Twin Gates
Honomanu Gulch
Haleakala RS
Holua Cabin 259.5
Hana
Kaumalapau Harbor
Lanai City
Lanaihale
Waiakoakua
Mahana
Haleakala Summit
Koawakapu Beach
Kula Sanatorium
Pollpoll Spgs
Paniieihulu
Kaupo Ranch House
Hanahuli
Ulupalakua Ranch
Kipahulu
Auwahi
Malopal Rch
USCOMM-ESSA-Asheville, N.C.
Revised 2-69



HAWAII

PLATE 2

STATUTE MILES

5 0 5 10 15

STATION LEGEND

- Precipitation only
- Precipitation, storage
- Precipitation and Temperature
- Precipitation, Temperature and Evaporation

Type of gage: ○ Non-recording, ● Recording, ◑ Both types

Double circle combinations indicate the availability of more detailed meteorological data

All stations use 150th meridian time

USCOMM-ESSA-Asheville, N.C.
Revised 2-69

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
NOVEMBER 1970
Volume 66 No. 11

UNIVERSITY LIBRARY
MAR 19 1971

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days: Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days: .10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																								
ANAHOLA 1114	A														14.18	9.42			.0	0				
KANALOHULUHULU 1075		65.9	50.9	58.4		73	7	44	27		0	0	0	0	6.99		1.70	21	.0	0		12	4	2
KAPAA STABLES 1104	A														11.15		3.68	26	.0	0				
KILAUEA FIELD 17 1135	A														16.22	7.94			.0	0				
KILAUEA POINT 1133		79.0M	68.7M	73.9M		83	1	60	26		0	0	0	0	10.51		3.10	25	.0	0		19	6	4
KOLOA 936	A														10.89	4.82			.0	0				
LIHUE WSO 1020.1	//R	80.3	70.5	75.4	.9	84	19+	64	27+		0	0	0	0	11.05	6.52	2.76	25	.0	0		13	5	5
MANA 1026		83.7	64.8	74.3	- .4	88	11+	61	27+		0	0	0	0	1.08	- .97	.47	20	.0	0		3	0	0
N WAILUA DITCH 1051	A														22.38				.0	0				
PH WAINIHA 1115															16.11	6.14	2.55	16	.0	0		18	11	5
PUEHU RIDGE 1040															1.20		.61	20	.0	0		4	1	0
WAHIAWA 930	A														3.06	- .03	1.30	20	.0	0				1
WAIAHI LOWER 1054		78.2	63.1	70.7		83	7+	56	22		0	0	0	0	18.81		7.46	26	.0	0		18	8	6
WAIMEA 947															2.93	1.19	2.05	20	.0	0		4	1	1
ISLAND				70.5											10.47				.0					
* * * ISLAND OF OAHU																								
HONOLULU OBSERV 702.2															3.62		.61	21	.0	0		10	2	0
HONOLULU WSFC 703	R	82.4	69.2	75.8	- .1	85	17+	63	5		0	0	0	0	5.94	3.78	1.50	5	.0	0		10	5	2
KAHUKU 912	A	M	M	M		85	6	60	23		0	0	0	0	7.41	3.68			.0	0				
KANEOHE MAUKA 781		78.6	67.7	73.2	- 1.0	82	28+	63	28+		0	0	0	0	29.66	24.38	12.25	26	.0	0		22	12	7
KOOLAU DAM 833															18.37	10.38	2.22	27	.0	0				
LUALUALEI 804		82.8	69.7	76.3		86	11+	65	4		0	0	0	0	4.50				.0	0				
MAKAPUU POINT 724		75.7	67.5	71.6		79	20	63	23+		0	0	0	0	13.37	11.08	3.28	18	.0	0		17	7	4
NUUANU RES 4 783															22.54	13.23	3.30	26	.0	0		22	11	7
OPAEULA 870	A	77.2	63.1	70.2	.0	81	6	57	22		0	0	0	0	9.12	4.11			.0	0				
PALOLO VALLEY 718															28.38	17.27	3.94	20	.0	0		24	15	9
PRI WAHIAWA 820.2	A	79.4	63.6	71.5		85	10	56	23		0	0	0	0	6.80				.0	0				
PUNALUU 884	A														19.44				.0	0				
WAHIAWA DAM 863	A														6.03				.0	0				
WAIAHOLE 837	A														24.43	12.60	7.06	26	.0	0				
WAIALUA 847	A	82.2M	64.4M	73.3M	- .1	87	6	60	4		0	0	0	0	4.00	1.65	1.06	29	.0	0		10	2	1
WAIKIKI 717.2		83.9	69.0	76.5		87	20+	60	22		0	0	0	0	5.20		1.12	21	.0	0		15	2	1
WAIMANALO EXP FARM		80.1	68.7	74.4		83	11+	63	24		0	0	0	0	21.65		4.42	18	.0	0		16	11	6
WAIPAHU 750	A														7.62	5.06			.0	0				
ISLAND				73.6											13.23				.0					
* * * ISLAND OF MOLOKAI																								
KUALAPUU 534	A														9.67	6.57			.0	0				
MAPULEHU 542															14.66	11.01	6.10	25	.0	0		16	5	3
MAUNALOA 511	A														4.67	1.92			.0	0				
MOLOKAI AP 524		79.9	68.8	74.4		83	12	65	4		0	0	0	0	9.62		2.83	29	.0	0		14	6	4
ISLAND				74.4											9.66				.0					
* * * ISLAND OF LANAI																								
LANAI CITY 672	A	75.6M	64.9M	70.3M		79	18+	60	3		0	0	0	0	10.73	7.87			.0	0				
ISLAND				70.3											10.73				.0					
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														13.10	6.86	2.47	14	.0	0		16	7	7
HALEAKALA RS 338		59.6	44.3	52.0		66	1	35	23		0	0	0	0	8.66		1.35	27	.0	0		16	6	3
HANA AIRPORT 355		79.9	68.4	74.2		83	11+	64	24+		0	0	0	0	16.00		5.75	18	.0	0		20	7	4
HONOKOHUA 493	A														16.32	13.00			.0	0				
KAANAPALI AIRPORT		79.4	68.0	73.7		88	21	53	30		0	0	0	0	8.00		2.59	26	.0	0		7	4	3
KAHULUI WSO 398	R	82.7	68.2	75.5	.5	86	29+	59	3		0	0	0	0	8.71	7.19	2.18	26	.0	0		11	6	3
KAILUA 446		77.8	65.4	71.6	.6	80	25+	61	23		0	0	0	0	28.20	18.15	5.60	26	.0	0		23	14	10
KEANAE 346	A														33.50	14.68			.0	0				
KIPAHULU 258															11.10	2.00	1.15	11	.0	0		22	10	2
KULA SANATORIUM 267		72.1	58.3	65.2	.8	77	20	54	3		0	0	0	0	6.90	4.90	2.01	27	.0	0		10	3	3
LAHAINA 361		83.8	67.7	75.8		87	13+	64	23+		0	0	0	0	5.27	4.06	2.43	27	.0	0		5	3	2
PAIA 406															10.88	7.97	2.60	27	.0	0		12	6	5
WAILUKU 386		M	M	M		84	20+	65	24		0	0	0	0	V 4.50				.0	0				
ISLAND				69.7											13.89				.0					
* * * ISLAND OF HAWAII																								
HAINA 214		78.5	65.6	72.1	.1	83	21	63	26+		0	0	0	0	9.43	3.76	2.29	22	.0	0		9	6	5
HAWAII VOLCNS NP HO 54		68.2	54.2	61.2	.4	73	19	48	18		0	0	0	0	9.74	- .44	3.88	20	.0	0		12	6	3
HILO WSO 87	R	81.9	65.9	73.9	.7	87	16	61	8+		0	0	0	0	7.21	- 6.16	1.85	4	.0	0		14	3	2
HUEHUE 92.1	A														2.58	- .35			.0	0				
KAINALIU 73.2		78.4	62.7	70.6		81	20+	61	15+		0	0	0	0	4.04	- .23	1.12	25	.0	0		7	3	1

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 123

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature													Precipitation									
											No. of Days									Snow, Sleet			No. of Days		
											Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92		79.9	64.7	72.3	- .3	84	28+	63	8+		0	0	0	0	13.32	- .61	5.15	21	.0	0		13	7	3
KEALAKEKUA 26.2		78.1M	63.7	70.9M		82	6	62	25+		0	0	0	0	3.88		1.03	25	.0	0		8	3	1
KONA (KAILUA) 68.3		84.7M	69.5M	77.1M		90	2	67	30+		1	0	0	0	2.10		.63	25	.0	0		5	2	0
KUKUIHAELE HIC 199															10.07	3.31	1.58	25	.0	0		15	7	4
KULANI CAMP 79		64.5	48.3	56.4		70	21	41	3		0	0	0	0	10.69		4.95	21	.0	0		14	6	1
PAHALA 21		M	M	M		84	4	59	3		0	0	0	0	√ 6.94				.0	0				
POHAKULOA 107	A														2.06				.0	0				
PUAKO 95.1	A	84.7	68.3	76.5		90	1	65	27+		1	0	0	0	1.91		.66	27	.0	0		4	3	0
PUU WAAWAA 94.1	A														3.37	1.28	1.10	25	.0	0				1
UMIKOA 118															7.52	1.12	1.48	25	.0	0		11	5	4
WAIAKEA SCD 88.2															8.49		1.83	21	.0	0		11	6	4
WAIMEA KOHALA		72.3	55.6	64.0		78	17	49	17		0	0	0	0	2.28		.85	25	.0	0		5	2	0
ISLAND				69.5											6.17				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 10TH AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 31° ON THE 15+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 37.05 AT PAAKEA 350, MAUI

LEAST TOTAL PRECIPITATION: .80 AT HUALALI 72, HAWAII

GREATEST ONE-DAY PRECIPITATION: 13.10 ON THE 26TH AT PAAKEA 350, MAUI

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

During November, as a sign that winter had come to Hawaii, nature put on a broad display of destructive weather: thunderstorms and lightning, high waves and surf, heavy rains and flash flooding.

Although trees, poles, and structures are struck and ignited by lightning from time to time in Hawaii, any resulting fires are ordinarily quickly quenched by the heavy rains which almost invariably accompany Hawaiian thunderstorms. Consequently, large fires set by lightning are extremely rare in the State. One of these exceptions appears to have occurred on November 7, when what may have been Hawaii's first well documented instance of an extensive lightning-caused fire, destroying 2,000 acres of grass and shrub land on the Puu Waawaa Ranch in Hawaii Island's North Kona district.

The lightning which set the fire was witnessed by two pilots and two Kona Village Inn employees, who reported the day as dark and overcast, with rain falling further upslope, but not in the area where the lightning struck. The fire, which took 3 days to extinguish, was estimated to have cost $14,000 -- $7,000 in damage to pastureland, and an equal amount spent in extinguishing it.

On the evening of the 20th, lightning again played havoc on Hawaii Island, this time in what residents of the Hilo area described as their worst lightning and thunderstorm display in years. According to firemen, many small blazes were set when lightning short-circuited TV sets. Most of these appear to have been extinguished without significant damage, but one of them is believed to have been responsible for the fire which completely destroyed a $49,000 home in Hilo. Lightning also split numerous electric poles, burned out or damaged 125 transformers and destroyed 4 generators in power plants. Electricity was out for several hours in parts of Hilo and in Kau, Kona, Puna, and North Kohala. Damage attributable to lightning in the Hilo area was estimated to total over $60,000.

Beginning on November 24, a slowly-moving storm approximately 1,000 miles to the north-northeast lashed the northern shores of the Hawaiian Islands with waves of 25 feet or more. Mokuleia, Oahu, one of the localities damaged by the high surf of December 4, 1969, (described in that month's issue of the Hawaii CD), was hardest hit when, beginning at 1:20 a.m. on the 24th, waves destroyed 12 retaining walls and did an estimated $100 to $2,000 in damage to each of 19 beach homes. On the other islands some parks and roads exposed to the giant waves sustained minor damage. Total wave damage for the State was estimated to be at least $64,000.

The waves had scarcely subsided, when heavy thunderstorm rains swept over all the islands but Hawaii during the evening of the 25th and the early morning of the 26th, Thanksgiving Day. The most intense rains appear to have occurred from thunderstorms associated with an upper level low pressure system and the orographic ascent of surface trade winds, and to have been localized in a small area between Oahu's windward coast and the Koolau Mountains, the scene of previous severe floods that occurred under similar meteorological circumstances. Kaneohe Mauka, at an elevation of 200 feet, had a 24-hour total of 12.3 inches, while the Haiku Naval Station, in the same area but at an elevation of 630 feet, registered 6 inches in 2 hours and 11-1/2 inches in 4-1/2 hours. The resulting flash floods were most serious, and damages heaviest, between Kahaluu and Waimanalo, where at least 20 homes and a church were flooded, 11 automobiles water-damaged, and storm drain facilities undermined. Fifteen people stranded in their homes by rising water were evacuated by firemen. Property damage from flood waters was estimated at about $120,000.

Flooding also occurred on Maui, Kaui, and Molokai, but did much less damage than on Oahu. The Honokowai Stream on West Maui and the Wailua River on Kauai overflowed and flooded a few homes and other buildings along their banks. Several roads were flooded and blocked temporarily by rocks, mud, and debris. Some agricultural areas experienced minor flooding and field erosion, but damage to crops was light. Flood costs on islands other than Oahu were estimated to be about $23,000.

The rainstorm spared Hawaii Island, but greeted its residents on Thanksgiving morning with the first major snowfall of the winter season -- a blanket 1 to 2 feet deep which whitened Mauna Kea and Mauna Loa down to about the 12,000-foot level.

A minor incident of the month was the funnel cloud reported on November 19 as moving westward toward shore about 1,000 feet off Maui's McGregor Point, while creating a disturbance in the water beneath.

The month's rains brought widespread relief from the dry weather which had affected many parts of the State during the previous months. Only extreme West Kaui and the coast and slopes of Hawaii Island's Hilo and Kau districts received below their average rainfall for November.

Long period stations which exceeded their previous greatest November rainfall totals are listed below.

SPECIAL WEATHER SUMMARY - Continued

Stations Whose Previous Greatest November Rainfall Totals were Exceeded in November 1970

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest November Total	November 1970
KAUAI			
Anahola	40	13.37 Inches	14.18 Inches
MOLOKAI			
Mapulehu	51	12.49	14.66
MAUI			
Haelaau	39	22.00	24.00
Hamakuapoko	87	14.15	15.66
Kukui	43	71.50	72.00

Stations Whose Previous Greatest 24-Hour Rainfall Total was Exceeded in November 1970

(25 years of record or more, only)

KAUAI			
Waiahi Upper	38	7.90	10.46
OAHU			
Kaneohe Mauka	42	11.37	12.25
MAUI			
Keahua	52	3.38	3.51

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DAILY PRECIPITATION

HAWAII
NOVEMBER 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • •																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	14.18		.30	.03		.12		•	•	.29	.02		.09	.07	•	•	.40		.20		1.30	•	•	.85	.03	.20	4.81	.57	•	•	4.90	
BRYDESWOOD STA 985	A	6.17	•	.02	.07	.05		.20	•	•	.52	.07	T	.19	.17	•	•	.30	.06	.45	.02	2.30	•	•	.11	.01		•	•	•	•	1.63	
EAST LAWAI 934	A	8.82	•	.08	.11	.04	.01	.49	•	•	.61	.11	.02	.15	.27	•	•	.56	.04	.03	.01	1.42	•	•	.24			•	•	•	•	4.63	
ELEELE 927	A	2.63			T	T			•	•	.06	T		.05	.03	•	•	.07	T	.02	T	1.82	•	•	.08			•	•	•	•	.50	
HALAULA 1110	A	11.00		.15	.03	.03	.11		•	•	.39			.12	.05	•	•	.13		.40		1.40	•	•	.95	.02	.20	4.16	.86	•	•	2.00	
HALENANAHO 1006	A	12.59	•	.18	.09	.27	.19	.11	•	•	.83	.13	.05	.21	.26	•	•	.44	.07	.05	.03	2.63	•	•	.41	.01		•	•	•	•	6.63	
HUKIPO 945		2.07							.20													1.43			.10				.25			
ILILIULA INTAKE 1050	A	19.90		.25	.07	.08		.49	•	•	1.54	.22	.09	.02	.31	•	•	1.79	.09	.12	.08	2.01	•	•	1.92		.02	•	•	•	•	10.80	
INTAKE WAINIHA PC 1086	A	18.11	•	•	•	•	.46	•	•	•	•	2.20	•	•	3.40	•	•	3.60	•	•	•	3.20	•	•	4.20	•	•	•	•	•	•	1.05	
KANALOHULUHULU 1075		6.99	.12	.03	.02	.12		.02	1.13		.06	.06	.02	.40	.44	.08		.26	.02	.42		.95	1.70	.13	.62	.02			.33	.02	.02		
KANEHA RESERVOIR 1092	A	17.35		.75	.07	.05	.10		•	•	.65	.22		.40	.20	•	•	.95	.15	1.10	.02	1.00	•	•	1.80	.05	.10	5.98	2.06	•	•	1.70	
KAPAA STABLES 1104	A	11.15		.19	.05	.02	.32		•	•	.37			.07	.13	•	•	.14		.30		1.62	•	•	1.07	.19	.27	3.68	.80	•	•	1.93	
KEALIA 1112	A	10.08		.24	.04	.06	.17		•	•	.23			.10	.10	•	•	.05		.25		1.45	•	•	.98	.02	.50	4.97	.72	•	•	.20	
KEKAHA 944		3.22							1.42											.02		1.26	.26					.23	.03			
KILAUEA 1134	A	13.37	•	.10	.01	.07		.06	•	•	.86	.03	.03	.65	.36	•	•	1.14	.03	.93	.01	.57	•	•	.96	.10	.62	•	•	•	•	6.84	
KILAUEA FIELD 17 1135	A	16.22	•	.11		.32	.01	.32	•	•	1.10	.18	.05	.40	.20	•	•	1.19	.01	1.17		.68	•	•	1.41	.11	.58	•	•	•	•	8.38	
KILAUEA POINT 1133		10.51			.22		.02	.32		.20	.03		.47	.33	.05	.22	1.04		.34		.54	.52	.13	.18	.01	1.08	3.10	.21	.20	1.10	.10	.10	
KOLO 1033		8.82																				.36	.07	.08					.31			
KOLOA 936	A	10.89	•	.21	.12	.09	.01	.41	•	•	.21	.23	.02	.23	.20	•	•	.57	.08			1.65	•	•	.28			•	•	•	•	6.58	
KOLOA HAUKA 994	A	16.28	•	.13	.08	.09	.08	.33	•	•	.77	.16	.09	.23	.32	•	•	.63	.05	.08	.03	3.32	•	•	.24			•	•	•	•	9.65	
KOLOKO RES 1137	A	16.86	•	.10	.07	.11	.03	.08	•	•	1.12	.02	.06	.25	.26	•	•	.90	.55	.72		.86	•	•	1.72	.12	1.23	•	•	•	•	8.66	
KUKUIULA 935	A	8.07	•	.02	.06	.04	.02	.06	•	•	.17	.06		.30	.22	•	•	.19	.01	.01		1.40	•	•	.26			•	•	•	•	5.25	
LIHUE VARIETY STA		13.68	.19	.02	.14	.19	.51		.69	.10	.30	.04	.15	.01	.29	.08	.02	.50	.02	.08	.01	2.84	.34	•	.29	.01	.01	5.16	1.02	•	.29	.38	
LIHUE 1020	A	8.06		.05	.01	.13	.10	.05	•	•	.79	.10	.02	.22	.10	•	•	.14	.02	.05	.01	1.92	•	•	.81	.01	.15	•	•	•	•	3.38	
LIHUE WSO 1020.1	//R	11.05	T	T	T	T	.05	.14	.16		T	.03	T	.33	.03	T	.12	T	.10	T	1.16	1.10	.04	.37	.01	.48	2.76	1.75	T	2.14	.02	.26	
MAKAHUENA POINT 940.1		4.24	.11		.02	.02	.02	.14	.01	.01			.04		.03	.03		.14		.02	.02	1.75	.05		.10			1.10	.61			.02	
MAKAWELI 965	A	2.87						.77					.02	.01					.03		1.66	.04		.01			.02	.31				
MANA 1026		1.08							.05											.02		.47			.20			.08	.26				
MOHIHI UPR CROSS 1083	A	-	-	-				.49	.16		.16		.16	.98	.49		.16	.33	.25		.57	2.38	.41	.74	.16	-	-	-	-	-	-	
MOLOAA 1145	A	12.87		.06		.05			•	•	.52			.04	.06	•	•	.86		.42		.75	•	•	.81	.03	1.81	1.47	5.90	•	•	.09	
MOUNT WAIALEALE 1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035		1.20																		.11		.61	.17						.31				
N WAILUA DITCH 1051	A	22.38		.46	.20	.16	.20	.66	•	•	2.26	.36	.20	.30	.46	•	•	1.26	.20	.60		3.10	•	•	2.46	.20	.30	•	•	•	•	9.00	
PH WAINIHA 1115		16.11	.37	.04	.05	.08	.03	.01	1.91	.04	.30	.45	.05	.72	.74	.67	.52	2.55	.62	2.30	.02	.26	.71	.39	1.49	.07	T	1.05	.21	T	.02	.44	
PRINCEVILLE RANCH 1117		15.29				.02	.08	.24	1.42	.06	.64	.01	.12	.80	.30	.31	1.30	.19	.06	.51	.08	.34	.42	.15	.87	.05	1.27	4.31	.23	.15	.65	.71	
PUEHU RIDGE 1040		1.20																		.11		.61	.17						.31				
PUHI 1013	A	11.34	•	.15	.08	.25	.27	.12	•	•	1.49	.16	.03	.23	.19	•	•	.33	.03	.05	.02	2.21	•	•	.83	.02		•	•	•	•	4.88	
RESERVOIR 6 1004	A	15.86	•	.09	.05	.37	.39	.24	•	•	1.19	.06	.03	.23	.12	•	•	.67	.04	.07	.02	2.92	•	•	.38			•	•	•	•	8.99	
WAHIAWA 930	A	3.06			.03	T		T	•	•	.09	.02		.05	.02	•	•	.22	.02	.25	.02	1.30	•	•	.14			•	•	•	•	.90	
WAHIAWA MOUNTAIN 990	A	18.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	18.50	
WAIAHI LOWER 1054		18.81	.12	.02	.08	.09	.09	.24	1.60	.15	.46	.11	.08	.04	.54	.05	.13	1.26	.14	.16	.02	2.33	1.13	.02	.19			7.46	.92	.09	.11	1.12	
WAIAHI UPPER 1052		21.66	.11	.02	.08	.06	.01	.21	1.43	.01	.10	.20	.02	.11	.30	.11	.11	1.48	.10	.11	.01	1.90	1.55	.05	.28	.02		10.46	.89	.21	.04	1.68	
WAIAWA 943		2.46							1.17											.04		.88			.13			.24				
WAILUA KAI 1065	A	14.73		.78	.08	.07	.11		•	•	.37	.04	.10	.02	.03	•	•	.15		.40		3.00	•	•	.82		1.02	5.66	.58	•	•	1.50	
WAIMEA 947		2.93							.42													2.05			.18				.27			
WEST LAWAI 931	A	6.06	•	.07	.06	.06	T	.07	•	•	.17	.02		.19	.18	•	•	.47	.03	.05	•	1.12	•	•	.15			•	•	•	•	3.42	
• • •																																	
ISLAND OF OAHU																																	
BERETANIA PUMPING STA		7.02	.03				.65	.55	.18	.25	.09			.17	.10	.02	.51	.30			T	.31	1.20		.07		.10	.26	.29	.71	.90	.33	
CAMP 84 807	A	6.08		.10			.20				.10			.02				.80			.12				.83	•	•	.19	•	•	•	3.72	
CHURCH COLLEGE LAIE		8.54	.05					.04	.28	.03	.06			.27	.13	.02	.57	.10	.30	.28		.16	.23		.43	.04	.38	2.35	1.38	.31	1.03	.10	
COCONUT ISLAND 840.1		14.21	.05		.01		.94	.08	.05	.04	.06	.01	.04	.08	.06	•	.22	.95		.40	.06	.45	•	1.20	.35	.25	.18	4.12	.30	1.40	2.65	.22	
EWA PLANTATION 741		6.16					.27			.06			.01	.05	.01	.09		.36				.15	.78		.02			.02			2.95	1.30	.09	
HELEHANO INTAKE 881	A	9.56	•	.60	•	•	.47	•	•	•	.62	•	•	.18	•	•	•	1.90	•	•	•	•	•	•	•	1.69	•	•	•	•	•	4.10	
HOKULOA 725.2	A	7.97	•	•	•	•	•	•	•	•	•	•		•	•	.72	.18	.65	•	•	•	•	1.43	•	.05	•	•	•	•	.73	4.21	
HONOLULU OBSERV 702.2		3.62			T		.34	.01		.01				.02	.02	.17	.21	.23				.25	.61	.16	.07		.03	.09	.54	.38	.40	.08	
HONOLULU WSFC 703	R	5.94	T	T	T		1.50	.02	.37	T	T		T	.03	.10	.10	.38	.02	2.20		.67			.06	.01		T	.41	1.03	.61	.55	T	
HONOLULU SUBSTA 704		5.99					1.15	.06	.20	.05			.09	.02		.11	.63	.08			.08			.10			.12	.45	.06	.91	.58		
H S P A EXP STA 707		7.69	.13				.85	.11		.26	.17	T	.25	.08	.26	.53	.40	T		.01	.28	1.55		.11		.23	.20	.31	.72	.91	.33	
KAHANA 883	A	43.36	•	•	3.82	•	•	•	•	•	2.64	•	•	•	•	•	•	6.80	•	•	•	•	•	•	6.30	•	•	•	•	•	•	23.80	
KAHUKU 912	A	7.41						.02	•	•	.36	.02	.03	.02	.06	•	•	.84	.02	.02	.02	.20	•	•	.89	.16	.07	•	•	•	•	4.68	
KAILUA FIRE STA 791.3		12.23	.01	.03	.05		.12	.01	T	.02	.16	.02	.01		.05	T	.04	.97	T	.70	.02	1.30	T	.03	.33	.35	.15	3.30	.13	1.25	1.98	1.20	
KALIHI RES SITE 777		22.05	.06				1.42	.12	.38	.38	.04	.08		.52	.52	.40	2.20	.42	.38	.06		1.24	.10	.64	.62	1.68	3.64	2.76	.54	1.12	•	2.73	
KANEOHE MAUKA 781		29.66	.03				1.61	.31	.34	.49	.12	.01	.15	.01	.42	.43	.67	.89	.10	.74	.03	.28	1.59	.01	.87	.37	1.50	12.25	.63	2.09	1.79	1.93	
KANEOHE RANCH 838	A	22.85	•	.15	•	.04	1.05	.15	.20	•	•	.40	.23	.04	.14	.01	•	1.62	.02	2.04	.11	.53	•	•	2.35	.46	1.49	•	•	•	•	11.82	
KAPALAMA 773	A	12.25					2.42		•	•	•	.10	.30	.85	.85	•	•	1.67	.04			.40	•	•	.76		.06	•	.20	•	•	4.65	
KAWAIHAPAI 841	A	4.53	•	.04					•	•	.03			.02	•	•		.66	.03	.47	.03	.30	•	•	1.20	.31	.10	•	•	•	•	1.34	
KAWAI IKI INTAKE 880.2	A	8.00	•	•	•	•	•	•	•	•	•	•	8.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
KEHOO CAMP 8 855	A	6.55	•	.15			.02		•	•	.10			.04	.10	•	•	.75	.02	.20	.01	.45	•	•	2.00	.02	.04	•	•	•	•	2.65	
KOOLAU OAM 833		18.37	.74	.01	.03	•	1.41	.29	.04	.42	.34	.62	.10	.63	.60	.22	1.03	1.90	•	.04	•	2.12	1.05	.02	.17	•	.36	.43	2.22	1.84	.94	.80	
LUALUALEI 804		4.50							•	•	1.15					•	•	.31		.06		.37	•	•	.15			•	•		•	2.46	
LUALUALEI WTR TUNNEL	A	*	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
LUNALILO HOME 724.2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAHA KAI 796.1	A	2.43	T				.02		.28	.07	.01				T	.02	.10	.07			T	.14	.32		T			.03	.47	.53	.23	.14	
MAKAHA PUMP 800.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAPUU POINT 724		13.37	.62			.01	.08			.21	.14	.02	.02			.13	.37	.40		3.28	.01	.10	1.96		.34	.19	.69	.82	.29	2.11	1.41	.17	
MANOA 712		14.85	.06		.02		1.07	1.16		.79	.48		.11	.60	.35	.36	.68	1.44	T			.43	1.55	.02	.44	.02	.46	1.32	.32	.88	1.23	1.06	
MANOA TUNNEL 2 716		28.18	.06			.18	2.18	.72	1.16	1.08	.06	.30	.22	.30	.64	.60	2.90	.70	.12			2.92	.06	1.60	.90	.72	3.74	1.62	.64	1.86	2.26	.56	
MOANALUA 770		10.14	.22		T		1.51	.52	•	.67	.03			•	.31	.21	.53	.39				.42	.41		.03		.02	.38	.37	1.52	1.64	.96	
NUUANU RES 4 783		22.54	.06				1.98	.52	.40	.46	.18	.34	.04	.20	.20	.44	2.86	.42	.12		.06	1.38	.04	.50	.54	1.08	2.98	3.30	.38	.80	2.98	.28	
NUUANU RESERVOIR 5 775	A	14.62	•	.10			1.47	1.45	•	•	•	.38	.07	.14	.64	•	•	3.08	.06	•	T	.24	•	•	1.12	.03	.97	•	1.27	•	•	3.60	
OPAEULA 870	A	9.12	.40		.03		.04	.05		.52	.12	.04	.02	.45	.23	.55	.27	1.27	.12	.05		.32	.94	.05	.44	.01	.02	•	•	1.80	1.16	.22	
PALOLO VALLEY 718		28.38	.18	.02	.06		2.10	.54	.52	.30	.02	.40	.10	.26	.42	.80	2.48	.76	.54	.06		3.94	.26	1.20	1.14	2.42	3.64	1.64	.48	.98	2.74	.38	
PAUOA FLATS 784		26.56	•	.06		.02	2.64	.54	.76	.56	.10	.40	.10	.34	.34	.54	3.50	.76	.20	•	•	1.14	•	•	•	•	•	•	9.78	1.04	3.16	.58	
PORTLOCK ROAD 724.4		4.65				.02	•	•	•	•	•	.06	.11	.16	.40	.03	.07	•	•	•	•	•	•	•	•	•	.28	.38	•	•	2.97	.17	
PRI WAHIAWA 820.2	A	6.80	•	.07			.58	.03	•	•	.15	.01		.12	.09	•	•	.92	T	.10		.95	•	•	1.18		.03	•	•	•	•	2.57	
PUNALUU 884	A	19.44	•	.32			.04		•	•	.22	.09	.23	.04	.07	•	•	2.75	.50	.80	.01	.90	•	•	2.00	.10	1.57	•	•	•	•	9.80	
PUNCHBOWL CRATER 709	A	7.19	.06				.93	.25	.07	.42	.05	.03	.04	.20	.12	.02	.44	.48	.04	.04	.01	.27	1.32	.02	.04	.02	.04	.26	.28	.07	1.24	.43	
ST STEPHENS SEM 788		20.91	.10		.02		1.36	.06	.21	.39	.16	.10	.31	T	.20	.05	.42	1.53	.05	2.61	.03	.38	1.15	.07	.93	.33	2.02	5.44	.38	.87	1.12	.62	
TANTALUS 2 780.5		16.47	•	.38	.02		1.14	1.83	.01	.62	.17	.04	.09	.37	.93	.22	.84	2.19	.07	.01		.24	1.65	.01	.26		.85	.91	•	•	•	3.62	
UNIV OF HAWAII 713	A	10.51	•	.57	•	•	.73	.06	•	•	•	.53	.01	.22	.19	•	•	1.63	T			1.20	•	•	2.05	T	.17	•	.55	•	•	2.60	
WAHIAWA OAM 863	A	6.03	•	.07			.68	.02	•	•	.02			.11	.08	•	•	.74	.01	.10	.01	.72	•	•	1.12	.02	.18	•	•	•	•	2.15	
WAIAHOLE 837	A	24.43	•	.50			.19	.11			.89	.03	.53	.12	.86	•	•	3.68	.09	.61	.02	1.03	•	•	3.28	.03	2.80	7.06	•	•	•	2.80	
WAIALAE KAHALA 715		6.62	.21	T	T		.93	T	T	.26	.14	T	.04	.07	.16	.15	.43	.35	.03	T		.12	1.30	.62	•	.04	.24	.37	.28	.51	.45	.52	
WAIALUA 847	A	4.00	.01								.02			T	.01	.02	.10	.06	.05	.35		.30	.15	.05	.25	.04	T	.14	.41	.35	1.06	.03	
WAIANAE 798.2	A	2.62					.01		.28	.48					.01	.02	.11	.04		.03	.01	.40	.44					.04	.43	.01	.15	.16	
WAIANAE HAUKA 803	A	13.08	•	•	•	.32	•	•	.41	•	•	•	1.10	•	•	.80	•	•	•	2.20	•	•	4.10	•	•	•	1.40	•	•	2.75	•	•	
WAIAWA 836	A	23.28	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	23.28	
WAIKANE 885	A	37.02	•	•	3.94	•	•	•	•	•	1.68	•	•	•	•	•	•	4.90	•	•	•	•	•	•	5.90	•	•	•	•	•	•	20.60	
WAIKIKI 717.2		5.20	.11		.03		.31	T		.12	.09	T	.02	.08	.16	.28	.21	T				.40	1.12	T	.12	T	.19	.35	.28	.79	.22	.32	
WAIMANALO EXP FARM		21.65	.05				.81			.49	.05	.01	.22	.06	.08	.32	.58	.01	4.42	.02	1.36	3.45		.45	.70	.77	3.82	.37	.96	1.60	1.05	
WAIMEA 892	A	5.74	•	.05				.09	•	•	.24			.30	.09	•	•	1.12	.08	.05		.18	•	•	.91			•	•	•	•	2.63	
WAIPAHU 750	A	7.62		.05	.01		.65	.04			.17			.02	.05	•	•	.65	.01			.17	•	•	1.07			•	•	•	•	4.73	
WILHELMINA RISE 721		11.90	.12		.04	.02	1.02	.06	.20	.28	.04	.02	.06	.24	.48	.04	1.06	.42				3.12		.36	.08	.04	.68	.92	.34	1.00	1.00	.26	
• • •																																	
ISLAND OF MOLOKAI																																	
KALAUPAPA 563	A	18.31	.65	1.05	•	•	1.47	.84	•	•	.08	•	.10	•	•	.46	.74	.44	•	•	.18	•	2.45	•	3.15	•	3.77	•	•	•	•	2.93	
KAUNAKAKAI 536	A	4.87		.08											.06			.03		.51	.66				1.13		.18	1.41	.46			.35	
KEONELELE PENS 551	A	8.32																	1.45			.82			3.10		.85					2.10	

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII
NOVEMBER 1970

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KUALAPUU 534	A	9.67						.02	*	*	.12	.03			.03	.51	*	.25		.35	.43	.25	*	*	2.30	.07	.62	*	*	4.69		
MAPULEHU 542		14.66				.03	.28	.05		.16		.13	.25	.12	.45	.48	.63	.04		.34	.04	1.23		.09	.06	.54	6.10	3.09		.22	.14	.19		
MAUNALOA 511	A	4.67	*	.17					*	*	.02				.02	*	*	.60	.01	.08	.27	.10		*	1.54	.19	.10	*	*	*	1.57		
MOLOKAI AP 5.4		9.62			T			.03		.20	.02				.01	.52	.10	.18	.18		.48	.14	.60	.04	1.50	.12	1.15	1.22	.22	.06	2.83	.02	
PUUOHOKU RANCH 542.1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIKOLU 540	A	29.63	*	*	*	*	*	*	*	*	*	6.41	*	*	*	*	*	*	5.02	*	*	*	*	*	*	7.55	*	*	*	*	*	10.65		
* * *																																	
ISLAND OF LANAI																																	
KANEPUU 690	A	8.48	*	*	*	*	.18	*	*	*	*	*	*	.03	*	*	*	*	*	*	1.32	*	*	*	*	*	*	*	*	*	6.95		
KAUMALAPAU HARBOR 658	A	5.69							*	*	.13					*	*	.02			.26	*	*	*	.83	*	.58	*	*	*	3.87		
LANAI CITY 672	A	10.73	*	.07			.02		.97	*	.01			.01		.19	*	.03		T	.32	.18	1.10	*	.65	.08	.60	*	*	*	6.50		
LANAIHALE 684	A	12.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.05		
MAHANA 694	A	7.35				*	.15	*	*	*	*	*	*	.01	*	*	*	*	*	*	.69	*	*	*	*	*	*	*	*	*	6.50		
MALAUEA 676	A	7.23						*	*	*	*	*	*	1.28	*	*	*	*	*	*	.50	*	*	*	*	*	*	*	*	*	5.45		
WAIAKEAKUA 685	A	8.71	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.31	*	*	*	*	*	*	*	*	*	*	*	*	8.40		
* * *																																	
ISLAND OF MAUI																																	
AUWAHI=252	A	7.32				.08						.05						.10								2.32			4.55		.22		
MALEAKALA B E S 434	A	13.10	1.27	.12			.02	.05	.23	.02	.03	.03	.10	.10	.05	2.47	1.08			1.32			1.70	.23		.19	.10	1.84	1.91	.14	.10		
MALEAKALA RANCH 432	A	9.89	.80	*	*	*	*	.06	*	*	.33	*	*	*	*	*	1.77	*	*	2.02	*	*	*	1.68	*	.12	.14	*	2.73	*	*	.24	
MALEAKALA RS 338		8.66	.44	.03	T		.35	.21	.21	T	.03	T	.12	.15	.03	1.25	.90	T	T	T	.02	T	1.32	T	.02	.51	.30	.45	1.35	.21	.61	.15	
MALEAKALA SUMMIT 338.4		w10.73	*	.17			.36	*	*	*	.03	.07	.04	.24	.06	*	*	2.34	T			.10	*	*	1.28	.25	.24	*	*	*	4.02		
MALIIMAILE 423	A	9.63	*	.69			.08	.02					.04	.05	.01	*	*	1.61		2.12	.02		1.40	*	.40	.05	.14	*	2.68	.02	*	.30	
MAMAKAPOKO 480		15.66	.35	.22		.01	.43	.07	.01	.01	.17	.20	.10	.20	.33	1.44	1.41			2.40	.06		1.54	.19	.19	.28	.21	1.92	3.70	.02	.20		
MANA 354		13.63	*	.45			.06	.13	.38	*	.12		.23	.30	.28	.90	*	.46	.28	.42	.11	.01	1.20	*	.08	.39	1.62	4.20	1.59	.08	*	.34	
MANA AIRPORT 355		16.00	.21		.02		.46	.08	.42	.16	T	.09	.10	.41	.25	.87	.32	.11	.31	5.75	.03	.02	1.18	.11	.15	.88	2.10	.52	1.15	.09	.14	.07	
MANAHULI 281		18.39	.08				.20	.17	.11	.30	.10	.12	.74	.27	.21	.73	.62	.33	.12	.17	.08	.18	7.25	.08		*	4.40	*	*	2.00	.07	.06	
MOLUA CABIN 259.5	A	10.05	2.05	*	*	*	*	*	*	*	*	1.05	*	*	*	*	*	*	*	*	*	1.95	*	*	*	*	*	5.00	*	*	*	
MONOKOHAU 480	A	36.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	36.00	
MONOKOHUA 493	A	16.32	*	.40			.12	.03	*	*	.05	.03	.07	.12	.27	*	*	1.29			.18	.03	.86	*	*	.53	.99	1.84	*	*	*	9.51		
MONOMANU GULCH 341	A	17.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.00	
KAANAPALI AIRPURT		8.00	.07				.04		.02	T					.01	.24	T	T		.03	.07	.16	1.33	.01			.50	2.59	2.54	.36	.03		
KAHOMA INTAKE 374	A	5.34	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.34	
KAHULUI WSO 398	R	8.71	.09			T	.01	T		T		.14	1	.01	.09	1.04	T			.20	T	T	1.51	.24	.04	.90	.20	.98	2.18	.22	.86		T	
KAILIILI 436	A	9.65	*	*	*	9.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KAILUA 446		28.20	1.11	.16		.08	1.35	1.37		.12	.29	.10	.62	.58	.29	2.88	1.42	.49	.10	4.50	.02		2.18	.22	.05	.50	.83	5.60	1.76	.05	1.37	.16	
KAUAULA INTAKE 375	A	11.53	*	*	*	*	*	*	2.68	*	*	*	*	*	*	.39	*	*	*	*	*	*	1.68	*	*	*	*	*	*	6.78	*	*	
KEAHUA 410		8.68	.17	.09				T	.03							.70	.19	.02		1.47	.02	T	1.07	.30	.02	.11	.18	.20	3.51	.12	.48	T	
KEANAE 346	A	33.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.50	*	*	*	*	*	*	*	*	*	*	*	*	*	16.00	
KEANAKAPU BEACH 260.2		3.46							T								.01						.89			.03	.17	.01	1.94	.37	.04		
KIHEI 311		4.48	T					T	.03							.07		.03		T			1.27		.01	T	.13	*	*	2.92		.02	
KIPAHULU 258		11.10		.40			.63	.24		.43	.13		1.15	.22	.46	.62	.70	.30	.32		.16	.08	1.02	.98		.14	.60	.10	.60	.80	.60	.42	
KULA HEIGHTS 323.2		5.29						.43	.08						.10	.05	.16			.19			1.44			.05	.24	.27	1.92		.26	.10	
KULA SANATORIUM 267		6.90					.05	.07	1.36				.05	.01			.13		.01	.19	.01	.06	1.85	.03		.10	.17	.05	2.01	.17	.38	.20	
LAHAINA 361		5.27						.28	.06												.01	.08	.57				.09	.10	2.43	1.65			
LAUNIUPOKO INTAKE 376	A	10.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.00	
LAUNIUPOKO VILLAGE 372	A	6.16						.10	.13												.12	.07	.75				.10	.12	4.00	.70	.07		
LUPI UPPER 442	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAHINAHA 466	A	9.83	1.14	.05			.15		.12		.04			.04	.22	.82		.38				.13	1.27			.03	.70	2.14	2.30	.25		.05	
MAKALELE -FLD 60-497	A	12.97		.15	*	*	*	*	*	*	.13	*	*	*	*	*	*	1.89	*	*	*	*	*	*	2.27	*	4.30	*	*	*	8.73		
OLINDA 332	A	10.18	.66	.06	.01	*	.05	.01	.26	.01			.10	.05	.02	1.02	.75	.01	T	.59	.01	.05	1.27	.22	.03	.16	.18	1.37	2.06	.15	.34	.74	
OLOWALU 296		5.09																				.30	.35				.08	.59	3.25	.52			
OLOWALU GULCH 377	A	10.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.00	
PAAKEA 350		37.05	2.03	1.20	.01	.53	2.59	1.76	.12	.40	.19	.48	1.22	.77	.89	2.14	3.81	.65	.11	.62	.03	*	.82	.65	*	.78	.54	3.10	1.14	.05	.13	.27	
PAIA 406		10.88	.32	.18			.04	.07	.01		.07	.04	.03	.04	.15	1.10	.63	.01		2.05	.01	.01	1.52	.06	.01	.28	.15	1.33	2.60	.01	.20		
PANILEIHULU 259.2	A	11.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.40	
POHAKEA BRIDGE 397.2	A	3.83	.12	*	*	*	*	*	*	*	*	.03	*	*	*	*	.18	.05	.02	*	*	*	.09	1.18	.02	*	.02	.17	*	*	1.82	.13	*	
POLIPOLI SPRINGS 267.2	A	4.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.50	
PUOHOKAMOA 2 343	A	26.60	*	*	*	26.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU KUKUI MAKAI 472	A	16.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.60	
PUUNENE 396		5.02	.01	.05								.02				.60			.22	.01		.01	1.50			.09	.27	*	*	*	*	2.24	
SPRECKELSVILLE 400.2		8.61	.25	.10			.02	.02	.01		.02	.04	.03	.02	.06	.81	.41			1.12	.02	.02	1.62	.11	.04	.11	.17	.60	2.70	.05	.25	.01	
TWIN GATES 261.3	A	6.06	*	*	*	*	*	*	.18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.88	
UKULELE 333	A	10.78	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.78	
UKUMEHAME 301	A	3.77																				.15	.84				.08	.45	1.95	.30			
ULUPALAKUA RANCH 250		6.75							.45				.02		.56			.16		.10	.02	.02	1.60		.04	.05	.28		3.08	.22		.15	
WAHIKULI 364	A	5.77					.10	.10	.08							.10						.05	.75				.17	.64	3.61		.17		
WAIEHU CAMP 484	A	15.01	.64	.05	*	*	*	*	*	.01	.06	.54	.05	.10	.14	.97	.99	.02	*	.02	*	.21	1.40	.07	1.07	.44	2.06	*	*	5.10	1.07	*	
WAIHEE VALLEY 482	A	18.72	.34	*	*	*	*	*	*	.01	*	.50	.17	.03	.45	1.00	1.11	.04	*	.05	*	.22	1.06	.23	1.38	.80	2.10	*	*	8.00	1.23	*	
WAIKAMOI 449	A	38.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	19.00	*	*	*	*	*	*	*	*	*	*	19.00	
WAIKAMOI OAH 336	A	25.93	*	5.84	*	.04	.25	.15	*	*	*	.66	1.42	.69	.50	*	*	8.87	.03	.13	.05	.01	*	*	1.62	.25	.30	*	4.53	*	*	.59	
WAIKAPU 390	A	5.67	.15	*	*	*	*	*	*	*	*	.13	.05	*	.04	.93	.44	.04	*	*	*	.04	1.43	.01	.01	.05	.25	*	*	1.95	.15	*	
WAILUKU 386	W	4.50	*	.34					*	*	.08	.46	.03		.01	*	*	1.31		.01	T	.08	*	*	.39	.25	1.00	*	*	*	*	.01	
WAIOPAI RANCH 256	A	8.45			*	*	.20	*	*	*	.51								*	.19	*	.86	*	*	1.95	*	*	*	4.74				
* * *																																	
ISLAND OF HAWAII																																	
AHUA UMI 75	A	3.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.02	
AWINI 182.1	A	15.18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.18	*	*	*	*	*	*	*	*	*	*	5.00	
CITY OF REFUGE 27.4		2.76		.01						.01					.72				.01				.90				1.07	.02		.02			
EAST HONOKANE 183.2	A	22.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	22.50	
HAINA 214		9.43	.62	1.31	.02	.09		.18	.02		.04	1.54	.06	.05	.06	.33	.07	.01					.22	2.29	.08	1.22	1.15	.02	.02			.03	
HAKALAU 142		10.87	1.20	.25	.27	.20	.31	.05			.19	1.75	.65	.56	.26	.66	.05	.19					.08	.99	.13	.05	2.46	.04				.53	
HALEMAUMAU 52	A	7.01	*	*	*	*	*	*	*	*	.23	*	*	*	*	*	*	.16	*	*	*	*	*	*	4.63	*	*	*	*	*	*	1.99	
HALEPIULA 117	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00	
HALEPOHAKU 111	A	1.68	.24	.01		.40	.05	.03				.04	.01										.04	.44	*	.01	.01	.06	.08	T	.01	.25	T	
HAWAII VOLCNS NP HO 54		9.74	.07	.26	.01	.02	.54	.05	.06			.24	.74	.22	T		.05	.14	T	T	.01	3.88	1.18	.27	.16	.07	1.12			.01	.01	.63	
HAWI 168	A	7.06	*	.15			.41	.04	*	*	.13	.28	.30	.15	.08	*	*	.64		.46	.04	.02	*	*	1.01	1.35	.70	*	*	*	*	1.29	
HILO COUNTRY CLUB 85.6		7.83	1.55	.45		.20	.55	.05			1.20	.85	.35				.20						.65	*	.15	.33	.50			.10		.70	
HILO WSO 87	R	7.21	.99	.21	.04	1.85	.46	.04		.03	.45	1.11	.13	.12	.06	.01	.25					.21	.03	T	.26	.46	.12		T		.08	.30	
HOLUALOA 70	A	4.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					*	*	*	4.80	*	*	*	*	*	*		
HOLUALOA BEACH 65	A	2.89																	.92								1.97	*	*	*	*		
HONAUNAU 27		8.78	1.10	3.05	1.15	2.10	.51	.15	.05	.10	.04	.02	.10	.30	.01			.04	.02		.01			.02						.01			
HONOHINA 137		10.86	.38	.85	.31	.06	.50	.10			.10	1.50	.62	.41	.50	.46	.04	.19					.60	.96	.11	.14	2.33	.01				.61	
HONOKANE 181.1	A	13.95	*	*	*	*	*	*	*	*	8.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.20	1.19	.49	.09	.82	.02	*	*	5.65	
HONOMU MAUKA 138		12.20	.52	2.05	.06	.27	1.41	.52			.37	1.83	1.04	.56	.28	.03	.12	.08					*	*	*	3.20	*	*	*	*	*	*	
HONUAULA 71	A	3.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
HUALALAI 72	A	.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	*	*	*	*	*	*		
HUEHUE 92.1	A	2.58	*	*	*	*	.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.73	*	*	1.33	*	*	*	*	*	*	
KAALA IKI 12	A	4.49		.08		.03	.11	.02	.01			.03	.93									.37	.32	.27	.02	.50	1.31	.01	.07	.29	T	.12	
KAAMALOA 29	A	4.31			.02				*	*	.06			.01		*	*	.08	.45	1.27			.92	T	.90	.09	1.18	*	*	*	*	.25	
KAINALIU 73.2		4.04		.04	.04			T		.08				.02			T		.19	.11		.13				.09	1.12	.01	.02			.44	
KALAPANA NO 1 67.8		8.53	.17	1.72	.02	.56	.01	.27	T	T	.03	.32	.37	.07	T	T	.12				*	.33	.40	.06	.35	.41	.58	.05	1.98		.05	.26	
KAMAIA NO 2 5	A	2.90	*	*	*	*	*	*	*	.14	*	*	*	*	*	*	.52	*	*	*	*	*	*	.83	*	*	*	*	*	*	1.41	*	
KAMUELA 192.2		3.39	.17	.31		.33		.08	.20			.22			.06	.08	.06			.02		.03	.41	.10		.03	.93			.03	.30	.03	
KAPAPALA RANCH 36	A	7.01	1.64	*	*	*	*	*	*	.24	*	*	*	*	*	*	.47	*	*	*	*	*	*	2.14	*	*	*	*	*	2.52	*	*	
KAPOHO LANDING 93.5	A	17.16	*	*	*	*	*	6.04	*	*	*	*	*	*	2.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KAWAINUI LOWER 193	A	19.21	*	*	*	*	*	4.10	*	*	*	*	*	*	5.10	*	*	*	*	*	*	2.89	*	*	*	*	*	*	7.12	*	*	*	
KEAAU 92		13.32	.02	1.60	.02	.25	1.89	.93			.04	.98	.52	.34	.03	.01	.23	.21		.40	.94		.03	5.15	.11	.02	.07	.52	.02			.33	
KEALAKEKUA 26.2		3.88			.01			T	.12	.01	.02			.01			.11				T	.85			.11	1.03	T	.02	T	.05	.20	
KEHENA 181.2	A	18.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.06	
KIULAKAA A E F 6	A	15.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.40	

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII NOVEMBER 1970

Station		Total	Day of Month																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KIPA 89.2	A	10.30	.12	1.39	.01	.21	.82	2.84	.02	.02	.04	1.61	.96	.22	.02		.01	.17					.02	T	.30	.05	.51	.01		.52	T	.43	
KOHALA 179.1	A	7.85	*	.45			.99	.07	*	*	.14	.76	.31	.19	.14	*	*	.60		.12		.10	*	*	.91	1.16	.71	*	*	*	*	1.20	
KOHALA MAULILI 176	A	9.91	*	.53			1.42	.07	*	*	.22	.76	.35	.17	.31	*	*	.69		.11		.08	*	*	1.99	1.63	.68	*	*	*	*	.90	
KOHALA MISSION 175.1		8.51	.25	.05			1.12	.09	.02		.08	.90	.52	.17	.16	.05	.36	.14	T	.17	T	.11	.37	.72	T	1.21	.90	T	.95	.02	.15	T	
KOIAWE LOWER 196	A	10.47	*	*	*	*	*	3.01	*	*	*	*	*	*	3.46	*	*	*	*	*	*	1.96	*	*	*	*	*	*	2.04	*	*	*	
KONA (KAILUA) 68.3		2.10						.15																									
KONA VILLAGE 93.8		3.03					.10	1.40											.10			.09	.58	*	.09	.39	.63	*	.03	*	*	.04	
KUKAIAU 222		12.49	1.33	1.48	.08	.03		.51	T		.04	3.00	.25	.03	.07	.12	.05				.02	.65				.63	.23						
KUKUIHAELE HIC 199		10.07	1.02	.94		.10	.52	.21		.02	.07	1.40	.42		.41	.26	.32					.14	1.93	.06	.63	2.68	.04		T		.02	
KUKUIHAELE MILL 206	A	7.50	*	1.15	.04	.04	.35	.08	*	*	.10	.69	.16	.02	.20	*	*	.39		.15	.06	1.30	.18	.02	.80	1.58	*	.04		.38	.02	
KULANI CAMP 79		10.69	.12	.40	.01	.22	.90	.08	.03			.27	.80	.21			.10	.07			.31	*	.72	1.71	.85	1.16	*	*	*	*	.10	
KULANI MAUKA 76	A	3.03	.28			.16	.36					.26		.09								4.95	.14	.07	.72	.81		.01	.17	.03	.58	
KULANI SCHOOL SITE 78	A	5.37	*	*	*	*	*	*	2.50	*	*	*	*	*	*	.11	*	*	*		.04	.15		.03	.47	.39		.21	.08	.40		
LANIHAU 68.2		4.76		.08			.71								.92	1.20	*	*	*	*	*	.57	*	*	*	*	*	*	1.10	*	*	
MANUKA 2	A	3.00	*	.18	*	*	*	.02	*	*	*	.17				*	*	.05	.04	*	*	.98	.20			1.32			.46			
																		.05	*	*	*	.05	*	1.09	*	*	*	1.44	*	*	*	
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUNA LOA SLOPE 085		3.15				.01	.06	.26																								
MIOOLE HOLUALOA 68.1	A	3.81	*	.21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.20	*	*	.16	.16			1.56	.70					.24	
MIOOLE PEN 147.1	A	1.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	.50	*	1.40	*	*	*	*	*	.05	
MOAULA 18	A	3.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.07	*	*	*	*	*	1.20	*	*	*	*	*	*	
																		*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.75	
MOUNTAIN VIEW 91		10.66	.02	1.44	.03	.27	.56	.92			.02	.89	.62	.32	.01	.03	.29	.26				.18	3.01	.06	.03	.14	.74	.05				.77	
NAALEHU 14	A	3.66		.01		.06	.07	T				.10	.76	.03			T					.51	.67	.05	T	.10	1.16	T	.04	.01		.09	
NAPOOPOO 28	A	2.98	*	*	*	*	*	*			.10	*	*	*			*					1.03	.98	.07	.31	.24	.84	T	T	T	.34	.27	
NAULU FOREST 38.6		5.17	.11	.08	.02	.05	.02	.01	T	T	.02	.17	.57	.04		T		.03	*	*	*	*		1.71	*	*	*	*	*	*	*	1.14	
NIULII 179	A	8.55	*	.40			1.08	.04	*	*	.08	.62	.67	.12	.26	*	*	.30		T	.05	.03	*	1.12	1.19	.97	*	*	*	*	*	1.62	
OOKALA 223		14.24	2.00	.51	.05	.06	.03	.40	.01		.02	2.30	.56	.12	.33	.16	.05	.01					.06	2.40	.05	.36	4.72		.01			.03	
OPIHIHALE 2 24.1		5.19	.01	.05	T	T	.04	.04	.23	.19		.01	.05	2.30	T	.02						.89	.01			.89	T	T	T	T	.40	.06	
ORCHID LAND EST 91.5	A	11.81	*	*	*	*	*	5.70	*	*	*	*	*	*	1.69	*	*	*	*	*	*	*	*	*	*	*	T	T	T	T		*	
PAAUHAU 217		9.85	.53	1.24	.04	.04		.12	.01		.02	1.58	.11	.04	.05	.18							.13	2.47	.02	1.98	1.28	.01					
PAAUILO 221		12.03	.98	.95	.10	.03	T	.46	.01		.07	2.75	.17	.01	.04	.12	.04						.11	1.89	.10	1.38	2.71	.01	T	.07		.03	
PAHALA 21		W 6.94	*	1.58		.02	.01	.01	*	*	.02	.02	.45									.31	*	*	.43	.30	1.22	*	*	*	*	.97	
PAHOA 65		17.38	.03	1.77		.59	2.45	1.25			.47	.97	.57	.58	.15	.02	.43	.40				.44	4.74	.11	.04	.29	.71	.09				1.28	
PAKAO 37	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.00	
PAPAIKOU 144.1		7.30	.16	1.61	.10	.10	1.18	.15	.02	.04	.08	1.11	.79	.29	.15	.07	.05	.22					.03	.23	.15	.06	.37	.08		.08	.01	.17	
PAPAIKOU MAUKA 140.1		9.51	.29	1.66	.02	.12	2.04	.74			.05	1.96	.71	.21	.06	.06	.04	.18					.03	.08	.17	.03	.56	.03		.28		.19	
PEPEEKEO MAKAI 144		10.44	.40	.98	.05	.35	.60	.11			.30	2.11	.46	.50	.45	.12	.16	.24					.04	.28	.20	.30	.63	.03		.02	.04	2.07	
PIIHONUA 89	A	12.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.60	
POHAKULOA 107	A	2.06		*	*	*	*	.15	.07	.30	*	*	*	*	.08				*	*	*	.02	.23	.02	*	*	*	*	*	*	1.15	.04	
PUAKO 95.1	A	1.91						.13									.01		T	.03	T	.55					.53	T	.66	T		T	
PUU KIHE 120	A	3.32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.32	
PUU LAAU 102.1	A	3.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.11	
PUU LEHUA 73	A	2.81	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.81	
PUU WALI 113	A	2.52	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.52	
PUUOKUMAU 167	A	8.08	*	*	*	*	2.94	*	*	*	*	*	*	1.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU OO 82		5.64	.01	.33		.25	.73	.20	.02		.01	.38	.74	.12	T	T	.18	.04			.97	*	.19	.10	.14	.17	.55	.51	.10	.51	.04	.32	
PUU WAAWAA 94.1	A	3.37						.33	.15				.23	.03			.26																
SADDLE ROAD 1 84	A	6.65	*	*	*	*	*	3.65	*	*	*	*	*	*	3.00	*	*	*	*	*	*	*	*	.31		.04	1.10	*	*	*	*	.92	
SOUTH POINT CORRAL 3	A	2.32	*	*	*	*	*	*	*	.21	*	*	*	*	*	*	.33	*	*	*	*	*	*	.30	*	*	*	*	*	*	*	*	
UMIKOA 118		7.52	1.37	.68	.20		.13				.47		.11	.01				.07				.04	.40	1.01	.24	1.24	1.48				1.48	*	
UPOLU POINT USCG 159.2		4.03	.04	.02			.14	.03			.04	.24	.19	.03	.02	.05	.23	.04		.55			1.16			.10	.54		.53			.07	
WAIAKEA SCO 88.2		8.49	.28	1.21	.02	.28	.76	1.13	.05		.03	1.00	.56	.29	.02		.05														.08		
WAIMEA KOHALA		2.28	.05	.10	T	T	.01	.05	.20		T	.09	T			.02	T			.01	T	.03	1.83	.03	.08	.45				.02		.40	
																							.66	.03		.15	.85	T	.03	T			

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN 02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
HILO WSO 87	26	0.6	5.7	17	NW	24	84	73	68	83	2	7	11	1	2	0	23	28	7.9
HONOLULU WSFO 703	4	7.0	10.1	28	NE	05	79	76	62	74	9	6	5	3	2	0	25	80	6.3
KAHULUI WSO 398	5	7.4	11.1	26	WSW	20+	87	82	65	83	8	5	5	3	2	1	24	55	6.6
LIHUE WSO 1020.1	4	8.0	11.2	25	NE	26+	79	75	68	76	10	6	8	0	3	2	29	26	7.6

See reference notes following Station Index.

DAILY TEMPERATURES

HAWAII
NOVEMBER 1970

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	66	61	69	70	71	62	73	70	70	70	72	63	61	62	65	67	63	64	65	64	61	62	69	60	64	63	67	65	69	68		65.9
	MIN	53	52	55	50	48	46	51	53	51	50	52	56	54	51	51	57	53	53	53	57	52	47	49	49	46	47	44	47	46	54		50.9
KILAUEA POINT 1133	MAX	83	81	82	80	81	80	82	80	80	80	81	78	76	78	78	78	77	75	82	82	82	75	74	76	76	73	80		81	79		79.0
	MIN	70	72	71	73	74	70	72	70	74	70	69	69	67	70	71	70	65	67	66	68	65	64	64	66	66	60	70		67	72		68.7
LIHUE WSO 1020.1	MAX	82	82	82	84	83	83	83	82	83	83	84	82	77	81	81	81	75	75	84	83	77	77	77	76	75	75	82	78	82	81		80.3
	MIN	73	72	73	71	75	73	71	75	73	75	76	72	72	74	73	73	68	68	68	72	65	64	66	66	68	66	64	68	68	74		70.5
MAKAHUENA POINT 940.1	MAX	85	85	80	81	84	84	85	82	81	83	82	82	83	75	81	80	78	74	79	85	80	78	72	79	75	73	74	84	86	82		80.4
	MIN	65	68	70	67	69	70	67	71	69	70	70	69	69	65	68	70	73	70	70	71	66	69	62	67	70	68	69	70	64	68		68.5
MANA 1026	MAX	87	85	86	87	87	85	84	85	88	85	88	85	86	80	84	82	84	79	83	85	82	80	79	80	80	82	80	84	85	83		83.7
	MIN	66	63	63	63	62	67	66	63	63	65	65	65	63	61	62	67	67	68	66	72	65	63	66	66	64	65	61	65	65	66		64.8
NIU RIDGE 1035	MAX	82	79	78	80	79	79	78	78	80	81	82	82	80	80	81	80	79	78	80	77	79	76	77	77	78	77	78	79	79	78		79.0
	MIN	61	60	60	60	61	60	61	60	63	62	61	61	60	60	60	60	61	62	60	60	60	58	59	60	60	58	60	61	60	60		60.3
WAIAHI LOWER 1054	MAX	80	80	79	81	83	83	83	80	78	79	81	78	76	77	76	77	77	73	80	79	78	77	75	75	74	75	78	78	78	79		78.2
	MIN	64	60	61	63	65	68	68	63	64	64	66	66	62	69	66	67	61	67	63	69	58	56	60	60	60	60	57	60	59	68		63.1
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	82	81	81	82	84	83	84	84	83	83	84	83	81	81	81	82	82	85	82	84	84	82	80	78	79	80	74	84	79	81		81.8
	MIN	67	64	65	61	68	68	66	64	65	68	66	67	67	67	67	68	64	67	68	71	67	60	64	65	66	64	64	68	64	64		65.8
HONOLULU WSFC 703	MAX	81	81	84	85	84	85	83	84	84	84	83	83	80	82	84	83	85	82	83	82	81	82	79	80	80	79	84	80	83	82		82.4
	MIN	69	68	71	68	63	71	69	71	72	73	73	72	71	70	69	71	69	68	72	71	67	64	66	68	67	67	67	69	68	72		69.2
HONOLULU SUBSTA 704	MAX	77	78	79	81	81	83	82	80	82	81	82	80	76	77	80	80	80	79	81	81	78	80	77	78	78	77	81	77	79	80		79.5
	MIN	71	71	73	71	72	73	73	73	73	74	72	72	71	71	70	72	71	69	72	75	69	68	67	69	68	67	68	68	68	70		70.7
KAHUKU 912	MAX		82	81	82	83	85			84	82	81	83	82			81	80	81	78	79			82	75	78					82		
	MIN		70	72	73	74	74			70	71	72	73	72			69	67	66	66	67			60	64	67					65		
KANEOHE MAUKA 781	MAX	80	76	80	80	82	80	80	80	81	81	78	81	80	76	78	79	79	80	72	81	78	78	78	74	73	77	78	82	78	78		78.6
	MIN	69	66	69	67	68	67	70	70	71	73	71	72	69	68	68	68	69	65	67	68	67	64	63	64	67	63	71	63	67	68		67.7
LUALUALEI 804	MAX	85	85	84	86	85	85	86	84	85	84	86	85	83	81	84	83	83	85	82	81	82	80	81	78	80	80	78	82	79	82		82.8
	MIN	72	70	69	65	66	73	69	73	68	73	73	72	74	72	71	70	68	69	70	72	72	68	66	69	70	67	67	69	67	66		69.7
MAKAPUU POINT 724	MAX	76	78	77	77	78	78	77	74	75	78	78	76	78	76	76	78	76	69	76	79	78	75	74	71	74	73	74	76	72	75		75.7
	MIN	69	65	71	68	68	73	69	69	69	68	72	69	68	71	71	68	67	65	66	67	66	63	63	64	66	67	65	68	65	64		67.5
OPAEULA 870	MAX	80	76	78	79	80	81	78	78	79	79	79	79	76	71	76	76	77	80	78	79	75	76	77	74	75	70	78	78	78	77		77.2
	MIN	64	62	63	61	62	64	64	64	65	65	64	65	65	62	64	66	63	61	62	67	62	57	60	60	63	63	65	62	64	64		63.1
PRI WAHIAWA 820.2	MAX	81	81	81	82	84	83	82	79	83	85	83	83	78	79	78	80	80	80	79	81	75	76	78	74	77	71	78	73	78	81		79.4
	MIN	65	61	62	62	62	65	66	62	63	65	64	64	65	64	66	64	63	63	64	66	68	63	56	62	64	65	63	63	65	63		63.6
WAIALUA 847	MAX	82	83	82	85	86	87	85	85	85	85	83	86	83	79	81	80	82	80	76	84	80	83	82	75	76							82.2
	MIN	63	65	63	60	65	65	66	66	64	63	64	65	64	64	61	68	64	64	65	69	64	65	64	65	64							64.4
WAIKIKI 717.2	MAX	87	84	85	87	86	85	87	83	84	85	85	86	85	82	83	84	84	87	83	87	83	83	84	80	82	81	80	85	78	82		83.9
	MIN	70	70	70	67	71	71	67	70	70	73	73	72	72	71	70	70	66	68	71	73	67	60	63	68	68	66	68	70	67	68		69.0
WAIMANALO EXP FARM	MAX	82	81	82	82	83	82	83	81	82	82	83	82	81	80	79	80	80	79	78	82	78	78	80	75	76	80	75	81	79	76		80.1
	MIN	68	69	72	71	70	72	71	71	70	71	70	72	71	70	69	70	71	65	68	68	69	65	64	63	67	65	65	68	68	69		68.7
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	81	82	82	82	82	82	82	80	82	82	82	83	82	79	79	80	80	78	78	78	77	78	78	75	76	76	79	79	81	82		79.9
	MIN	73	69	69	65	68	69	70	70	70	70	69	70	69	69	71	70	68	67	68	69	68	70	66	66	68	68	68	68	69	69		68.8
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	73	74	74	75	79	79	78	74	75	76	77	79	75	74		75	77	79	74	78	75		73	73	70					78		75.6
	MIN	64	65	60	65	67	66	66	66	66	64	67	65	66	64		66	67	64	66	69	65		63	63	62					61		64.9
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	66	57	60	61	60	63	60	61	61	61	65	62	59	60	57	62	63	61	57	64	59	60	57	52	52	55	61	59	55	57		59.6
	MIN	46	39	40	42	45	47	44	47	40	45	43	43	45	45	48	49	45	45	44	51	48	39	35	38	45	45	48	49	45	43		44.3
HALEAKALA SUMMIT 338.4	MAX		53	56	54	51	52			50	59	58	58	50			48	50	52	52	51			58	49	48					49		
	MIN	36		42	38	40	38			38	43	42	39	39			38	40	38	39	39			37	39	39					41		
HANA AIRPORT 355	MAX	79	82	82	81	80	83	82	82	82	79	83	82	82	75	80	80	80	75	82	82	78	79	75	72	72	80	82	81	82	82		79.9
	MIN	68	69	66	67	71	70	68	68	69	72	74	72	67	69	69	69	71	69	65	69	69	64	64	64	66	71	66	69	70	66		68.4
KAANAPALI AIRPORT	MAX	81	76	78	79	82	82	81	80	80	82	82	82	79	79	76	78	79	80	76	81	88	79	79	76	74	76	78	79	80	81		79.4
	MIN	69	70	65	65	69	71	67	69	69	67	69	72	70	68	71	71	68	68	69	72	69	67	67	67	67	66	69	70	67	53		68.0
KAHULUI WSO 398	MAX	82	84	84	86	86	86	85	85	86	84	86	84	84	80	83	86	85	80	85	82	80	81	76	76	77	76	82	80	86	84		82.7
	MIN	69	67	59	61	68	69	64	70	71	73	70	71	69	70	69	68	65	70	74	74	70	67	64	67	68	67	69	69	66	67		68.2
KAILUA 446	MAX	79	79	76	78	76	76	77	77	77	78	78	77	77	76	77	76	76	80	80	79	80	79	78	78	80	78	76	79	79	79		77.8
	MIN	64	65	66	67	66	68	65	66	68	68	68	66	66	66	66	66	66	65	65	65	67	64	61	62	63	62	64	64	67	66		65.4
KEAHAKAPU BEACH 260.2	MAX	86	84	85	86	87	86	88	89	89	91	84	87	85	89	85	85	86	88	86	87	84	81	83	82	78	81	86	83	82	85		85.3
	MIN	70	61	60	60	68	67	64	64	63	64	65	65	63	64	63	64	65	68	73	75	69	66	62	66	65	66	68	69	65	64		65.5
KULA SANATORIUM 267	MAX	71	72	73	73	72	71	74	73	71	72	71	71	72	71	72	72	73	73	72	77	75	71	72	74	72	69	72	73	69	70		72.1
	MIN	60	55	54	55	59	60	58	57	57	58	60	60	60	61	58	59	58	59	60	63	65	55	56	57	58	59	58	58	56	56		58.3

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAHAINA 361	MAX	86	86	84	83	85	87	85	86	85	85	86	85	87	85	84	84	85	84	82	83	84	83	82	84	78	82	78	81	82	84		83.8
	MIN	68	66	64	66	68	70	68	68	67	67	68	69	68	68	69	69	68	66	70	74	72	64	64	65	67	67	67	69	67	69		67.7
WAILUKU 386	MAX		79	79	81	81	81			81	80	79	81	79			80	80	84	76	84			78	75	71					82		
	MIN		68	69	71	71	72			70	70	71	70	70			68	69	67	69	74			66	65	66					67		
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	80	75	77	78	81	78	79	81	80	79	81	80	80	80	76	78	82	80	75	82	83	72	75	75	71	76	79	81	82	80		78.5
	MIN	65	69	64	67	67	66	65	64	66	67	67	66	65	66	66	67	63	66	65	66	67	65	65	66	65	63	64	66	65	65		65.6
HAWAII VOLCNS NP HQ 54	MAX	69	64	65	65	65	71	70	69	69	72	69	68	69	68	69	69	69	71	73	70	70	68	62	63	62	63	72	72	70	69		68.2
	MIN	53	54	50	57	55	55	52	53	54	58	54	55	53	53	55	53	49	48	56	57	59	56	57	56	56	56	58	51	51	53		54.2
HILO WSO 87	MAX	81	82	82	81	82	80	81	79	81	80	85	82	81	82	85	87	86	82	83	85	78	78	76	76	79	85	85	86	85	83		81.9
	MIN	68	65	61	69	66	66	62	61	62	66	67	67	66	66	66	65	64	65	66	67	70	68	68	69	68	68	66	65	65	66		65.9
KAINALIU 73.2	MAX	81	80	78	80	81	80	79	79	78	79	81	80	79	79	76	79	78	78	80	81	78	79	76	77	67	74	80	79	79	78		78.4
	MIN	61	61	66	62	64	66	63	62	61	61	64	62	62	61	61	64	62	62	62	65	64	63	63	64	62	62	65	63	62	62		62.7
KAMUELA 192.2	MAX	72	67	70	73	72	72	75	71	70	74	72	71	71	70	69	71	74	74	75	75	77	74	72	73	67	69	77	80	78	73		72.6
	MIN	58	57	57	59	60	58	58	58	58	60	58	57	58	59	57	57	49	52	58	57	60	58	57	58	57	53	55	53	55	57		56.9
KEAAU 92	MAX	80	80	77	81	79	81	80	81	81	82	80	81	81	79	78	81	83	84	81	82	84	75	75	73	73	77	81	84	83	80		79.9
	MIN	64	64	63	64	64	64	64	63	64	68	65	66	65	64	64	64	64	64	65	64	65	66	66	66	66	65	66	65	64	65		64.7
KEALAKEKUA 26.2	MAX	80	79	77	80		82	79	79	79	79	81	79	78	78	78	78	80	78	78	79	77	78	75	78	68	73	79	79	78	78		78.1
	MIN	63	63	66	63	65	66	63	63	62	62	65	63	63	63	63	64	63	62	64	67	65	62	64	66	62	63	65	63	64	63		63.7
KOHALA MISSION 175.1	MAX	78	77	78	79	75	78	78	79	78	78	78	79	78	77	70	77	79	80	75	80	83	73	76	76	70	76	78	80	81	78		77.4
	MIN	64	67	67	68	67	68	68	68	67	67	68	66	66	67	68	68	64	65	67	69	70	66	66	67	64	65	67	67	65	67		66.8
KONA (KAILUA) 68.3	MAX		90	85	85	84	86			86	86	86	86	85	85		84	85	85	84	85	85		85	84	73		85			84		84.7
	MIN		68	72	70	72	72			69	70	69	70	69	70		69	69	70	71	72	71		67	68	67		67			67		69.5
KULANI CAMP 79	MAX	64	60	61	65	67	65	66	66	63	69	64	62	63	63	63	66	61	68	68	69	70	65	61	60	60	63	65	66	67	65		64.5
	MIN	48	48	41	49	48	49	48	44	49	53	47	48	48	49	48	47	44	44	50	51	51	49	50	52	52	50	51	48	47	45		48.3
MAUNA LOA SLOPE 08S	MAX	54	50	50	48	45	42	46	49	56	55	55	53	50	50	52	56	51	57	52	51	47	48	51	41	46	50	46	47	46	49		49.8
	MIN	33	33	32	36	33	32	34	32	36	39	37	35	32	31	31	33	33	34	40	39	36	35	36	36	33	36	36	34	33	33		34.4
MOUNTAIN VIEW 91	MAX	79	79	71	76	75	78	78	78	78	79	76	77	78	75	77	77	78	80	78	82	81	81	81	66	70	79	79	79	79	79		77.4
	MIN	58	58	55	56	60	60	56	56	56	62	62	62	61	59	59	59	56	58	58	62	62	62	62	62	62	59	59	59	59	59		59.3
NAALEHU 14	MAX	81	81	78	80	78	80	80	79	79	81	76	79	80	80	80	80	80	80	84	84	84	80	80	74	74	74	74	79	79	79		79.3
	MIN	63	63	65	67	68	68	68	65	65	68	67	67	64	64	64	64	67	64	65	67	67	67	67	65	64	64	64	66	66	66		65.6
OOKALA 223	MAX	80	78	76	78	80	80	79	80	80	80	81	79	80	80	78	79	80	81	78	82	81	75	76	79	69	76	79	79	82	82		78.9
	MIN	65	65	65	64	68	67	67	66	66	66	66	65	65	65	66	68	66	65	66	67	69	64	65	65	64	64	66	65	65	68		65.8
OPIHIHALE 2 24.1	MAX	74	75	78	79	79	76	76	76	78	79	79	78	76	74	78	77	74	77	82	78	76	77	78	69	65	73	80	80	77	77		76.5
	MIN	59	60	62	61	61	62	59	59	59	60	60	59	58	58	60	63	59	59	64	65	61	62	63	62	62	61	62	61	61	61		60.8
PAHALA 21	MAX		81	79	84	82	83			81	83	79	81	81			83	82	82	82	81			80	74	74					81		
	MIN		62	59	61	64	64			60	63	62	62	60			60	60	60	62	65			65	65	65					61		
PUAKO 95.1	MAX	90	88	87	86	85	85	84	86	88	87	86	87	88	86	85	83	87	84	82	85	86	87	83	81	73	80	84	82	83	83		84.7
	MIN	68	69	70	69	68	68	66	70	70	73	73	73	70	69	68	67	67	67	69	70	70	67	68	68	65	65	65	66	66	66		68.3
UPOLU POINT USCG 159.2	MAX	81	80	80	82	82	80	80	82	81	81	81	81	80	80	79	79	81	84	80	84	85	78	82	81	71	78	83	86	81	79		80.7
	MIN	68	68	67	67	71	71	70	70	70	71	71	69	69	72	70	70	69	69	70	77	72	68	72	69	67	69	68	70	73	71		69.9
WAIMEA KOHALA	MAX	73	69	70	73	71	74	72	73	73	74	72	74	73	71	71	73	78	73	74	74	74	73	69	72	67	69	70	71	77	72		72.3
	MIN	53	58	51	58	54	58	58	53	58	59	57	58	58	56	54	54	49	55	54	54	62	57	56	55	58	52	55	57	55	53		55.6

EVAPORATION AND WIND

Station		Day Of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total or Avg.
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.19	.33	.20	.21	.28	.31	.16	.40	.32	.24	.30	.33	.20	.22	.19	.24	.11	.07	.07	-	.20	.09	.04	.21	.12	-	.08	.12	-	.24		6.088
	WIND	168	177	153	120	157	165	99	151	141	173	172	174	189	208	168	213	107	55	43	91	99	-	-	-	-	-	-	-	-	-		-
	MAX	79	78	77	82	84	85	85	84	82	83	82	84	81	72	78	76	78	73	72	82	79	77	75	75	74	69	73	81	73	82		78.5
	MIN	61	62	62	63	64	67	67	64	64	65	65	65	65	62	62	65	65	61	66	66	61	59	58	58	58	62	58	58	62	62		62.6
* * * ISLAND OF OAHU																																	
HONOLULU 08SERV 702.2	EVAP	.16	.24	.21	.18	.19	.25	.15	.06	.19	.23	.14	.18	.16	.08	.18	.17	.15	.20	.15	.13	.18	.32	.13	.15	.09	.09	.15	.10	.08	.08		4.77
	WIND	23	33	19	18	15	17	14	16	17	17	22	24	24	14	31	19	17	27	2	43	58	26	25	26	16	14	16	14	12	13		632
	MAX	83	85	81	83	86	89	89	84	86	85	85	85	85	79	83	83	83	84	85	86	82	82	81	79	78	79	71	86	80	81		83.0
	MIN	63	62	62	62	63	68	66	65	64	65	66	66	65	62	62	67	65	65	64	71	65	60	60	63	63	65	64	65	66	65		64.3

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 834	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
E&W 3 RESERVOIR 1094.1	0465	0[illegible]	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A 0470	0[illegible]	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANANO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	A 1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	0[illegible]	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A 2222	0[illegible]	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KALINIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	380		8A			CLOSED 10/31/70
KANALOHULUHULU 1075	3099	0[illegible]	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KAHALOHULUHULU R. S.
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	0[illegible]	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A 4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARM CO LTD
KOLOKO RES 1137	A 4758	01	KAWAINAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	NATL WEATHER SERVICE
MAKANUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	8A	8[illegible]			U S COAST GUARD
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7[illegible]			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	9A	9[illegible]			KEKAHA SUGAR CO LTD
M&M 1001	6097	02	KOLOA	2	21 55	159 28	300					GROVE FARM COMPANY
MONINI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A			MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		7A			PRINCEVILLE RANCH
PUENU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8[illegible]			GROVE FARM CO LTD
RESERVOIR 6 1004	A 8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740					LIHUE PLANTATION CO.
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A 8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	[illegible]	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					DON MITCHELL
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A			DEL MONTE CORPORATION
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565					J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	[illegible]	21 21	158 02	50	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 77192	0964	02	HONOLULU	2	21 23	157 54	170					BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274					WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220		VAR			H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WSFC 703	R 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		J	NATL WEATHER SERVICE
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	MID	MID			NATL WEATHER SERVICE
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A			KAHUKU PLTN CO
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A			KAILUA FIRE STATION
KALIHI RES SITE 777	2960	0[illegible]	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7	3056	01	OAHU	1	21 19	157 41	1380					THE OCEANIC INSTITUTE
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A 3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10					GEORGE H. SWIFT
KAPALAMA 773	A 3268	0[illegible]	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAINAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A 3741	0[illegible]	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	4766	0[illegible]	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDC
LUALUALEI 804	5647	0[illegible]	WAIANAE	4	21 26	158 08	113	7A	7A			USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A 5650	0[illegible]	WAIANAE	4	21 29	158 08	1500					U S NAVY
LULUKU	5655	01	KOOLAUPOKO	1	21 24	157 49	240					MILNOR LOH
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			HAROLD ROBERTS
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A			CAPITAL INVESTMENT CO.
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	8A	8A			U S COAST GUARD
MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240					CLARENCE LEE
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410					EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A			WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718	7564	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ROBERT EVERETT
PRI WAHIAWA 820.2	A 8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A			PINEAPPLE RESEARCH INST
PUNALUU 884	A 8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900					JACK N. WHEELER
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLINAN
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000					BOARD OF WATER SUPPLY
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A 8945	05	WAHIAWA	5	21 30	158 03	854		7A			WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715	9165	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			ALFRED J. PRATT
WAIANAE MAUKA 803	A 9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836	A 9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180					WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A			WAIALUA SUGAR CO. INC.
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	A 3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560					MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		8A			H S P A
MAUNALOA 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	DOLE COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUKOO KAI 545.1	8221	01	MOLOKAI	1	21 05	156 48	10				C	MISS MIRIAM DAVIS
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI												
KANEPUU 680	A 3130	01	LANAINA	1	20 52	157 00	1650				C	DOLE COMPANY

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF LANAI												
KAUMALAPAU HARBOR 658	A 3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370					ST. DIV OF FISH & GAME
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430					DOLE COMPANY
MALAUEA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI												
AUWAHI-252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	8A	8A		C	LKHEED SP & MSLE DIV
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690				C	PHIL SCOTT
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3[illegible]			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WSO 398	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO
NAKALELE FLD 60-497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A 7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI MAKAI 472	A 8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A 9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386	9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A 0190	01	N KOHALA	1	20 10	155 43	1870		VAR			KOHALA DITCH CO LTD
CITY OF REFUGE 27.4	0344	04		4	19 25	155 55	15		8A			NAT HISTORICAL PARK
EAST HONOKANE 183.2	A 0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1520		VAR		C	HILO COUNTRY CLUB
HILO WSO 87	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HOLUALOA MAKAI 69.16	1570	04	HAWAII	4	19 38	155 58	1040				C	SID WEINRICH
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A 1864	01	N KOHALA	1	20 09	155 44	800		VAR			KOHALA DITCH CO LTD
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A 2327	04	N KONA	4	19 30	155 55	1340		8A			CAPTAIN COOK COFFEE CO.
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700				C	RUSSELL P. SMITH
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A 3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			CLOSED 10/7/70
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPPLY
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEHENA 181.2	A 4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A C F 6	A 4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	A 4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	A 4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA (KAILUA) 68.3	4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	STANDARD OIL CO OF CAL
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300				C	MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MANUKA 2	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103		8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL see notes	OBSERVER
ISLAND OF HAWAII												
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
NAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 49	75		6A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	448		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULIO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA HILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	6A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO, INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
PUHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. RAPP
PUU KIHE 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUKUHAU 167	A 8548	06	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		6A		C	GDN WINTERS
PUU WAAWAA 94.1	A 8559	05	N KONA	5	19 47	155 51	2520		7A		C	OILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8678	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 13	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKANONULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH
WAIMEA KOHALA	9554	05	S KOHALA	5	20 00	155 40	2665	8A	8A		C	HAWAIIAN AIRLINES
CLOSED STATIONS ISLAND OF KAUAI												
KALIHIWAI RES 1131	A 2974	01	HANALEI	1	22 11	159 26	380		8A			CLOSED 10/31/70
ISLAND OF HAWAII												
KAHUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	8A	8A			CLOSED 10/7/70
NEW STATIONS ISLAND OF HAWAII												
CITY OF REFUGE 27.4	0346	04		4	19 25	155 55	15		8A			NAT HISTORICAL PARK

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table, Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\+ And also on an earlier date or dates.

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table; "Daily Precipitation" table; and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month

H Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-NOAA-ASHEVILLE-3/3/71-890

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
DECEMBER 1970
Volume 66 No. 12

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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature: Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days: Max. 90° or Above	Max. 32° or Below	Min. 32° or Below	Min. 0° or Below	Precipitation: Total	Departure From Normal	Greatest Day	Date	Snow, Sleet: Total	Max. Depth on Ground	Date	No. of Days: .10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																									
ANAHOLA 1114	A														3.14	- 2.26	.39	3	.0	0		0	0
KANALOHULUHULU 1075		65.3	53.5	59.4		75	10	47	31		0	0	0	0	5.69		1.53	27	.0	0		14	3	1
KAPAA STABLES 1104	A														3.74				.0	0			0	0
KILAUEA FIELD 17 1135	A														7.84	- 1.67			.0	0				0
KILAUEA POINT 1133		76.2	69.1	72.7		79	5	63	23		0	0	0	0	3.44		.42	1	.0	0		12	0	0
KOLOA 936	A														7.97	.35			.0	0				
LIHUE WSO 1020.1	//R	79.0	71.3	75.2	3.0	81	15+	66	30+		0	0	0	0	2.29	- 2.89	.34	26+	.0	0		8	0	0
MANA 1026		82.8	62.1	72.5	.4	86	15+	57	28		0	0	0	0	.37	- 2.93	.16	2	.0	0		1	0	0
N WAILUA DITCH 1051	A														25.26				.0	0				
PH WAINIHA 1115															16.60	3.01	2.45	20	.0	0		22	12	7
PUEHU RIDGE 1040															.35		.20	2	.0	0		1	0	0
WAHIAWA 930	A														4.15	- .34			.0	0				
WAIAHI LOWER 1054		75.4	64.4	69.9		78	18+	60	31+		0	0	0	0	13.35		1.31	3	.0	0		23	10	3
WAIMEA 947															.29	- 3.06	.10	27	.0	0		1	0	0
ISLAND				69.9											6.75				.0					
* * * ISLAND OF OAHU																								
HONOLULU 08SERV 702.2															.49		.15	27	.0	0		2	0	0
HONOLULU WSFO 703	R	79.8	69.5	74.7	1.1	86	14	65	29		0	0	0	0	1.23	- 1.76	.41	26	.0	0		4	0	0
KAHUKU 912	A	M	M	M		81	16	65	30+		0	0	0	0	2.74	- 1.54			.0	0				0
KANEOHE MAUKA 781		76.8	68.8	72.8	.7	81	15	62	31		0	0	0	0	4.25	- 2.60	.51	24	.0	0		18	1	0
KOOLAU DAM 833															22.08	12.08	3.20	4	.0	0				8
LUALUALEI 804		79.8	69.8	74.8		83	15	63	15		0	0	0	0	2.14				.0	0				0
MAKAPUU POINT 724		74.4	66.1	70.3		80	9+	58	28		0	0	0	0	1.48	- 1.83	.45	11	.0	0		3	0	0
NUUANU RES 4 783															11.42	.36			.0	0				
OPAEULA 870	A														7.48	.51			.0	0				
PALOLO VALLEY 718															10.70	- 2.61	2.48	10	.0	0		18	8	2
PRI WAHIAWA 820.2	A	77.2	64.4	70.8		83	15	61	31+		0	0	0	0	4.93				.0	0				
PUNALUU 884	A														5.68				.0	0				
WAHIAWA DAM 863	A														3.74				.0	0				
WAIAHOLE 837	A														9.07	- 5.22			.0	0				
WAIALUA 847	A	78.9	64.2	71.6	.4	85	15	57	30		0	0	0	0	1.67	- 2.27	.40	27	.0	0		5	0	0
WAIKIKI 717.2		81.9	70.5	76.2		88	15	67	30+		0	0	0	0	1.37		.17	27	.0	0		6	0	0
WAIMANALO EXP FARM		78.3	69.1	73.7		83	15	64	30		0	0	0	0	1.06		.21	11	.0	0		5	0	0
WAIPAHU 750	A														1.18	- 2.36			.0	0				0
ISLAND				73.1											5.15				.0					
* * * ISLAND OF MOLOKAI																								
KUALAPUU 534	A														2.44	- 1.82			.0	0				0
MAPULEHU 542															4.38	.17	.59	5	.0	0		16	1	0
MAUNALOA 511	A														.77	- 2.73			.0	0			0	0
MOLOKAI AP 524		77.8	68.7	73.3		84	15	67	30+		0	0	0	0	1.72		.38	7	.0	0		5	0	0
ISLAND				73.3											2.33				.0					
* * * ISLAND OF LANAI																								
LANAI CITY 672	A	72.9M	63.3M	68.1M	1.6	79	16	57	31		0	0	0	0	.33	- 3.39	.14	11	.0	0			0	0
ISLAND				68.1											.33				.0					
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														26.47	16.01	3.50	18	.0	0		22	13	10
HALEAKALA RS 338		56.3	42.8	49.6		66	16+	35	30+		0	0	0	0	25.24		7.10	27	.0	0		17	10	6
HANA AIRPORT 355		78.3M	68.0M	73.2M		81	5	64	31		0	0	0	0	6.40		.93	19	.0	0		20	4	0
HONOKOHUA 493	A														5.35	.70			.0	0				0
KAANAPALI AIRPORT		79.2M	68.3M	73.8M		82	14+	63	1		0	0	0	0	1.63		.92	18	.0	0		3	1	0
KAHULUI WSO 398	R	80.8	67.0	73.9	1.2	86	15	59	13		0	0	0	0	1.77	- .93	.50	27	.0	0		7	1	0
KAILUA 446		73.7	64.8	69.3	.4	79	2	59	28		0	0	0	0	16.68	4.83	2.69	3	.0	0		24	14	7
KEANAE 346	A														30.50	8.18			.0	0				
KIPAHULU 258															11.43	.52	1.20	2	.0	0		21	11	2
KULA SANATORIUM 267		71.0	54.3	62.7	.4	75	13	49	30		0	0	0	0	.39	- 2.64	.19	1	.0	0		2	0	0
LAHAINA 361		82.8	65.7	74.3		86	12	60	30		0	0	0	0	1.05	- 1.24	.98	28	.0	0		1	1	0
PAIA 406															4.73	.51	.57	28	.0	0		18	2	0
WAILUKU 386		M	M	M		86	24+	67	30		0	0	0	0	1.09	- 3.23	.26	5	.0	0			0	0
ISLAND				68.1											10.21				.0					
* * * ISLAND OF HAWAII																								
HAINA 214		76.1	64.0	70.1	- .1	82	15	57	29		0	0	0	0	16.98	9.28	2.18	27	.0	0		23	13	7
HAWAII VOLCNS NP HQ 54		62.2	51.6	56.9	- 1.8	68	11+	45	29		0	0	0	0	34.26	24.12	4.35	27	.0	0		23	20	13
HILO WSO 87	R	80.2	65.2	72.7	1.2	85	14+	61	31		0	0	0	0	35.25	20.07	9.33	2	.0	0		29	19	10
HUEHUE 92.1	A														2.04	- .32	1.15	3	.0	0				1
KAINALIU 73.2		77.6	60.0	68.8		80	20+	57	31+		0	0	0	0	1.80	- 1.21	.91	2	.0	0		3	1	0

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 135

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
DECEMBER 1970

Station		Temperature													Precipitation									
											No. of Days								Snow. Sleet			No. of Days		
											Max.		Min.											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	90° or Above	32° or Below	32° or Below	0° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92		76.7	63.4	70.1	- .9	80	14+	58	31		0	0	0	0	37.43	21.26	6.17	3	.0	0		29	19	12
KEALAKEKUA 26.2		77.7M	61.1M	69.4M		80	1	58	31+		0	0	0	0	.90		.28	3	.0	0		3	0	0
KONA (KAILUA) 68.3		M	M	M		84	21+	63	30+		0	0	0	0	.38		.34	2	.0	0		1	0	0
KUKUIHAELE HIC 199															15.34	6.12	1.80	2	.0	0		20	10	6
KULANI CAMP 79		59.1	45.8	52.5		74	17	40	15+		0	0	0	0	38.37		6.00	20	.0	0		24	18	15
PAHALA 21		M	M	M		83	18	58	30		0	0	0	0	*				.0	0				
POHAKULOA 107	A														1.91		.90	20	.0	0				0
PUAKO 95.1	A	83.0	67.7	75.4		87	19	63	31		0	0	0	0	.14		.13	20	.0	0		1	0	0
PUU WAAWAA 94.1	A														.87	- .83	.57	20	.0	0		2	1	0
UMIKOA 118															32.07	20.58	4.98	27	.0	0		16	13	12
WAIAKEA SCD 88.2															46.64		4.95	27	.0	0		27	22	15
WAIMEA KOHALA		69.9	50.1M	60.0M		76	15	44	22+		0	0	0	0	2.50		.50	29	.0	0		8	1	0
ISLAND				66.2											16.68				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 19+ AT 2 STATIONS

LOWEST TEMPERATURE: 23° ON THE 28+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 67.11 AT WAIKAMOI DAM 336, MAUI

LEAST TOTAL PRECIPITATION: .00 AT 3 STATIONS

GREATEST ONE-DAY PRECIPITATION: 13.27 ON THE 3D AT PAPAIKOU MAUKA 140.1, HAWAII

See Reference Notes Following Station Index

HAWAII - DECEMBER 1970

SPECIAL WEATHER SUMMARY

The month displayed almost every variety of winter weather known to Hawaii: intense rains, high swell and surf, heavy snowfalls on mountain summits, a severe ice storm on Haleakala, and a damaging "whirlwind". In addition, the normally moderate trade winds turned blustery and lashed the Islands for days on end.

Small craft or gale warnings for Hawaiian waters were in effect on 21 days, and at Honolulu International Airport the trades had an observed frequency of 97 percent, in comparison with their December average of about 60 percent. The persistent trade winds, and the absence of North Pacific storms, were responsible for the prolonged absence of suitable surf at Makaha Beach, in the lee of the trades, and the consequent postponement of the Duke Kahanamoku Surfing Competition.

By themselves, or in combination with recurring low pressure in the upper atmosphere, the trades were responsible for most of the month's harsh weather. On December 2, strong trade winds and moist unstable air produced torrential rainfall over the eastern slopes of Hawaii Island, where Papaikou Mauka and Kipa registered 13.27 and 12.95 inches, respectively, their greatest 24-hour December totals of record. As the attached rainfall chart (Figure 1) shows, the rainfall was heaviest near the eastern coast, while the entire western two-thirds of the Island received less than half an inch of rain.

On the 16th, sea swell reported to be up to 15 feet in height, generated by strong trade winds blowing unimpeded over an 1,800-mile-long fetch to the east of the Islands, battered the windward coasts with high surf which, at Kapoho Beach near the eastern tip of Hawaii Island, reached heights estimated at 20 feet or more.

On Christmas morning and until the afternoon of the 29th, very strong northeasterly trade winds from a nearby stationary high pressure area 800 to 1,200 miles north of Hawaii, and intermittently reinforced by migratory high pressure cells, buffeted the State, resulting in widespread, although relatively minor, damage.

On Oahu, on the 26th, winds with gusts estimated at 50 to 60 m.p.h. ripped roofs off three homes, two apartments, and many garages and patios in the Honolulu area. A 40-foot Norfolk pine fell on a home, causing about $3,000 in damage. Fallen trees, branches, and debris made driving hazardous. Electricity was out at scattered locations, and a snapped powerline started a brush fire in the Koolau Range.

On Maui on Christmas morning, a "whirlwind" presumably generated within the turbulent trade winds destroyed a flower farm greenhouse in Kula, scattering lumber and fiberglass panels in all directions. On the night of the 26th, severe icing and strong winds knocked out powerlines, loaded with as much as 3 inches of ice, to the television transmitter atop 10,000-foot Mt. Haleakala, causing residents of Maui, Hawaii, and windward Oahu to miss the live National Football Conference playoff game the next morning.

Roads in the Kula, Olinda, and Kokomo areas were blocked by downed trees, branches, electric and telephone lines, and other debris. In the region around Lahaina, always vulnerable to strong winds tunnelling through mountain gorges to the east, a home was unroofed, electric wires short-circuited, signs knocked down, telephone poles tilted, and two persons injured -- apparently by shards from a shattered plate glass window. Two of the large branches of the famous Lahaina banyan tree fell to the ground (but fortunately were not broken) when support beams collapsed. On the 27th a strong gust flipped over a light plane taxiing down a runway at Kahului Airport, but the pilot escaped without injury and the plane with only minor damage.

On Hawaii Island (as on Maui), strong trade winds sweeping through the 2,600-foot saddle between Mauna Kea and the Kohala Mountains, burst into the usually well-protected western coastal region, unroofing a home in Puako and a warehouse in Kawaihae, disrupting electricity and telephone services, and toppling 52 trees at Hapuna Beach Park and over 100 trees on the grounds of the Mauna Kea Beach Hotel. Falling trees and branches knocked out power to over 100 homes, mainly in the Kohala and Kau areas. At South Point a man knocked into the ocean by a giant wave, and his cousin who jumped into the rough waters to save him, were swept out to sea and drowned on the morning of the 27th.

Associated with the month's predominant trade winds, Honolulu International Airport, in leeward Oahu, received 76 percent of possible sunshine for December, as compared to the month's average of 59 percent. In contrast, Lihue and Hilo Airports on the windward side of their Islands, received only 24 percent and 14 percent of possible sunshine during the month, as compared to their normals of 48 percent and 45 percent, respectively.

Hilo Airport recorded rain on every day and 1/2 inch or more on 19 days, for a monthly total of

SPECIAL WEATHER SUMMARY - Continued

35.25 inches -- 20 inches above the December normal.

Over the State as a whole, rainfall totals were mixed. Central mountain uplands on Oahu and Kauai ranged somewhat above normal for the month, while windward and leeward coastal plains had many gages with less than half and, particularly in the western lowlands, less than one-fourth of their December average. On Maui, the saddle area, Kula, and the western coasts of both east and west Maui had less than half or even one-fourth their monthly averages, while Haleakala's summit and upper slopes had three to four times the December mean. All of Lanai and all but eastern Molokai were dry, while on Hawaii Island rainfall ranged from much below normal at lower elevations in the Kona area to three to four times normal in the Kulani to Volcanoes area and at higher elevations in Kona.

Cool weather slowed crop growth and strong winds caused bruising in exposed areas and toppled 7 acres of banana trees on Hawaii. Pasture conditions were good with improved soil moisture, but cool temperatures retarded grass growth.

Peak Gusts Observed During the
Strong Winds of December 25-29, 1970

Island	Location	Peak Gust (m.p.h.)
Kauai	Kilauea Point	46
	Kokee	52
	Lihue Airport	45
Oahu	Barbers Point NAS	35
	Honolulu Airport	50
	Kaena Point	69
	Kaneohe MCAS	36
	* Nuuanu Pali	90 (est.)
Lanai	Lanai Airport	46
Molokai	Molokai Airport	44
Maui	Kaanapali	50
	Kahului Airport	40
Hawaii	Hilo Airport	30
	Kapoho	54
	Kawaihae	52
	Ke-ahole Airport	62
	Kiolakaa-Keaa	54

* The Nuuanu Pali, a 1,000-foot-high pass in the Koolau Mountains, is open to the northeast trade winds, which ordinarily blow through the Pali at speeds considerably above those near sea level at the same time. The 90 m.p.h. speed indicated above were observed by hand-held anemometer at 10 a.m. on the 29th, at which time Honolulu International Airport and the Kaneohe Marine Corps Air Station were recording only 24 m.p.h. and 14 m.p.h., respectively. This is a much greater difference than is usually observed between trade wind speeds at sea level and at Nuuanu Pali.

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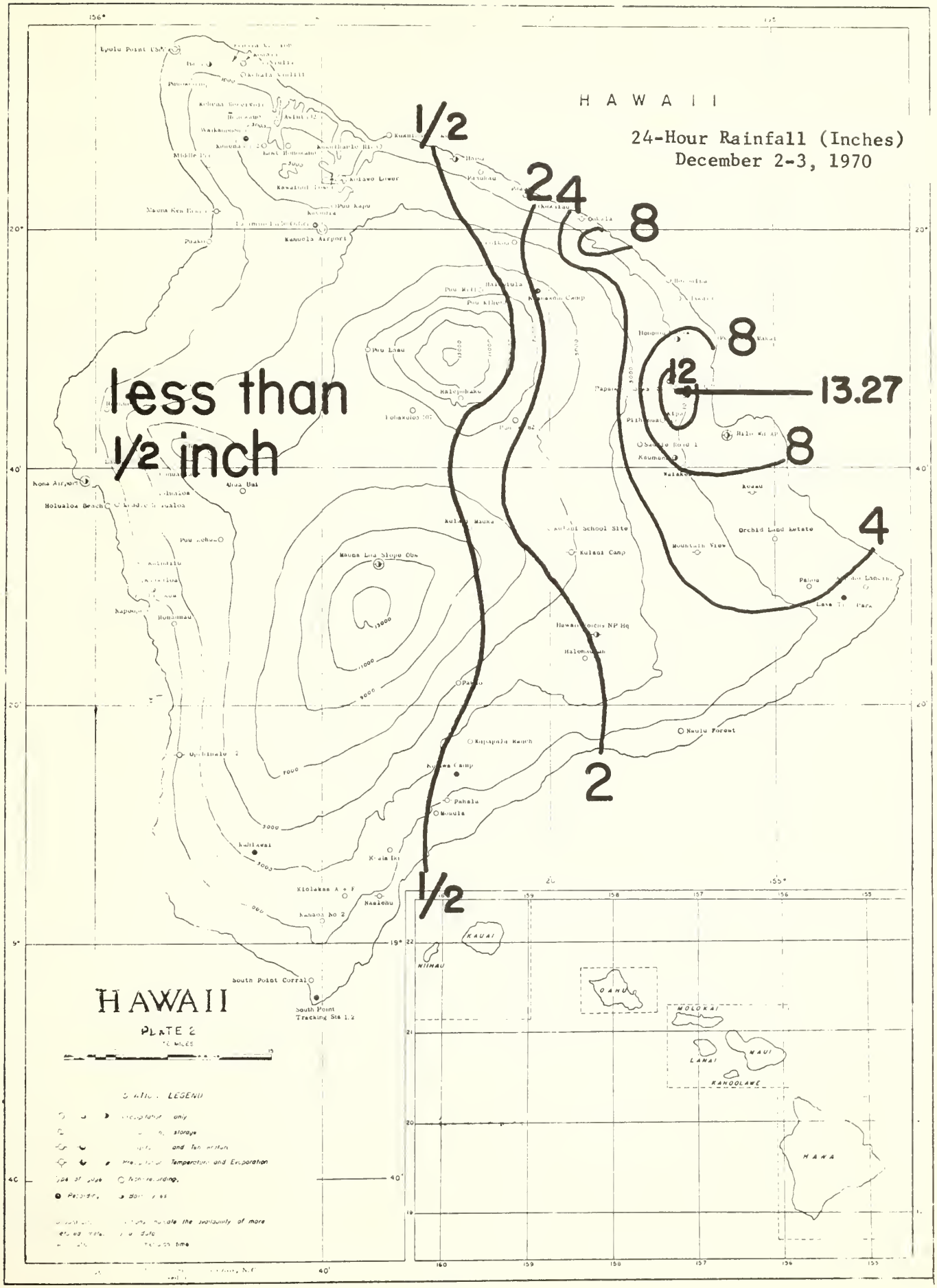

HAWAII
24-Hour Rainfall (Inches)
December 2-3, 1970
1/2
24
8
8
12
13.27
8
4
2
1/2
less than
1/2 inch
HAWAII
PLATE 2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII

Figure 1

DAILY PRECIPITATION

HAWAII
DECEMBER 1970

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	3.14	.10	.36	.39	.32	*	*	.30	.14	.11	.01							.01	.03	*	*	.30	.36	.04	.15	*	*	*	.34	.06	.12	*
BRID S.TOD STA 965	A	10.26	.20	.69	.86	.35	*	*	.83	.20	.17	.50	.01	*	*	.06	.02	.02	.11	.08	*	*	2.19	.38	.28	*	*	*	*	2.74	.45	.12	*
EAST LAWAI 9.4	A	8.19	.37	.77	1.09	.47	*	*	.78	.25	.29	.69	.05	*	*	.03	.02	.01	.13	.12	*	*	.63	.25	.12	*	*	*	*	1.58	.30	.24	*
ELEELE 927	A	3.90	T	.18	.84	.05	*	*	.56	.07	.17	.17	T						.01	T	*	*	.28	.15	.03	*	*	*	*	1.25	.14	T	
HALAWA 1110	A	2.66	.06	.41	.47	.31	*	*	.17	.14	.11	.02		*	*	.01			.02		*	*	.24	.16	.04	.06	*	*	*	.21	.11	.12	*
HELENAMAU 1 06	A	8.21	.40	.75	1.10	.42	*	*	.50	.33	.09	.75	.12	*	*	.10			.10	.08	*	*	.45	.32	.52	*	*	*	*	1.60	.22	.36	*
HOKIPO 945		.11																				.06		.03				.02					
ILILILILA INTAKE 1050	A	23.04	1.11	1.30	2.52	3.15	*	*	1.25	.44	.92	1.33	.20	*	*	.31	.04	.13	.06	.32	*	*	2.54	.92	.55	1.10	*	*	*	4.44	.13	.28	*
INTAKE WAINIHA PC 1086	A	23.47	*	3.71	2.71	*	4.20	*	*	*	*	*	*	*	*	.25	*	*	*	*	*	2.30	*	*	*	*	*	*	*	*	10.30	*	*
KANALOHULUHULU 1075		5.69	.19	.23	.32	.11	.15		.02	.07	.02	.10	.02	.01					.01	.01	.07	.49	.02	.09	.10	.16	.18	.91	1.53	.09	.59	.18	.02
KANEHA RESERVOIR 1092	A	8.25	.11	1.16	.93	.72	*	*	.76	.26	.23	.36	.04	*	*	.22	.02		.06	.18	*	*	.78	.21	.43	.16	*	*	*	.92	.08	.62	*
KAPAA STABLES 1104	A	3.74	.10	.45	.38	.45	*	*	.20	.15	.12	.18	.02						.03		*	*	.33	.25	.08	.25	*	*	*	.47	.08	.20	*
KEALIA 1112	A	2.84	.11	.57	.46	.05	*	*	.32	.12	.07	.06		*	*	.02			.01	.01	*	*	.20	.21	.05	.17	*	*	*	.26	.05	.10	*
KEKAHA 944		.09			.02							.07																					
KILAUEA 1134	A	5.11	.14	.33	.16	.22	*	*	.27	.09	.35	.10	.02	*	*	.32		.25	.13	.20	*	*	.87	.10	.37	.37	*	*	*	.60	.04	.18	*
KILAUEA FIELD 17 1135	A	7.84	.51	.52	.61	.57	*	*	.58	.20	.31	.38	.07	*	*	.33		.06	.11	.05	*	*	.90	.50	.40	.54	*	*	*	.95	.10	.15	*
KILAUEA POINT 1133		3.44	.42	.15	.01		.04	.02	.04	.17	.12	.04	.01				.07	.10	.19	.33	.39	.02	.07	.24	.28	.37	.04		.07	.04	.16	.04	.01
KOLO 1033		.31	.03	.05	.06							.12														.05							
KOLOA 936	A	7.97	.37	.59	1.07	.44	*	*	.68	.24	.15	.58	.12	*	*	.04			.19	.17	*	*	.70	.21	.11	*	*	*	*	1.45	.26	.60	*
KOLOA MAUKA 994	A	12.26	.61	1.15	1.76	.75	*	*	.82	.34	.14	1.00	.05	*	*	.12		.04	.14	.10	*	*	1.13	.50	.72	*	*	*	*	2.18	.42	.29	*
KOLOKO RES 1137	A	6.90	.24	.82	.85	.67	*	*	.15	.12	.42	.23	.05	*	*	.13	.03		.10	.10	*	*	.70	.39	.30	.60	*	*	*	.77	.06	.17	*
KUKUIOLA 935	A	4.04	.05	.35	.78	.18	*	*	.51	.11	.09	.12	.04	*	*	.03	.01	.01	.10	.03	*	*	.10	.11	.06	*	*	*	*	.76	.29	.31	*
LIHUE VARIETY STA		5.74	.29	.52	.51	.22	.09	*	.15	.14	.14	.57	.04	.27					.01	.03	.30	*	.29	.16	.07	.45	.27	.28	.24	.07	.29	.31	.03
LIHUE 1020	A	3.72	.17	.42	.28	.21	*	*	.17	.13	.04	.36	.03	*	*	.03			.07	.07	*	*	.20	.05	.12	.07	*	*	*	.75	.22	.33	*
LIHUE WSO 1020.1	T/R	2.29	.14	.34	.19	.07	T	.01	.03	.02	.13	.04	.01	T				T	.03	.04	.03	T	.05	.02	.13	.17	.04	.34	.03	.04	.30	.08	.01
MAHAMENA POINT 940.1		3.38	.01	.05	.41	.04	.04	.24	.02	.11	.07	.03						.01	.10	.07	.13	.04		.05	.12	.12	.22	.08	.96	.10	.14	.22	
MAKAHELI 965	A	1.25	.13	.05	.15		.01	.01	.01	.04		.07							.04		.13			.03	.11	.05	.07	.34	.04	.04			
MANA 1026		.37	.07	.16	.08							.02												.02		.02							
MOHIMI JPR CROSS 1083	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MOLOAA 1145	A	3.04	.04	.17	.27	.49	*	*	.11	.05	.30	.02	.03	*	*	.02	.02		.08	.09	*	*	.37	.07	.16	.10	*	*	*	.46	.06	.13	*
MOUNT WAIALEALE 1047		52.28	2.32	0.10	2.91	1.54	.51	.12	.71	1.93	2.40	1.38	.67	.16	.71	.24	1.14	.63	.55	3.07	7.72	4.69	1.14	1.77	3.15	.94	1.69	.79	.39	.55	1.06	.47	.83
NIU RIDGE 1035		.46		.25	.12							.04											.05									
N WAILUA DITCH 1051	A	25.26	2.30	1.93	2.66	1.72	*	*	1.13	.40	.70	1.15	.14	*	*	.41	.02	.59	.15	.28	*	*	5.32	1.06	.71	1.32	*	*	*	2.50	.32	.45	*
PH WAINIHA 1115		16.60	.84	1.09	1.31	1.50	1.08	.08	.05	.57	.22	.76	.07	.16	.01	T		.01	.13	.12	1.19	2.45	.32	.48	.44	.81	1.23	.62	.23	.05	.34	.40	.04
PRINCEVILLE RANCH 1117		7.57	.21	.60	.31	.21	.10	.07	.16	.34	.45	.37	.04			.08	.06	.02	.14	.18	*	*	2.23	.06	.64	*	.85	.02	*	.05	*	.33	.05
PUEHU RIDGE 1040		.35		.20	.05							.04											.06									
PUKI 1013	A	5.38	.15	.58	.56	.44	*	*	.49	.16	.10	.12	.04	*	*	.04			.10	.03	*	*	.22	.20	.26	*	*	*	*	1.08	.32	.49	*
RESERVOIR 6 1004	A	9.18	.22	.60	.98	.76	*	*	.71	.27	.13	.95	.08	*	*	.10			.10	.08	*	*	.77	*	.42	*	*	*	*	2.50	.20	.36	*
WAHIAWA 930	A	4.15	.02	.27	.55	.12	*	*	.80	.15	.18	.11	T						.06	*	*	*	.18	.05	.02	*	*	*	*	1.36	.25	.03	*
WAHIAWA MOUNTAIN 990	A	24.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.00
WAIAHI LOWER 1054		13.35	.84	.80	1.31	.92	.45	.02	.13	.27	.28	1.02	.06	.27	.03	.01		.02	.03	.24	1.00	.27	.38	.63	.47	.93	.51	.82	.49	.04	.42	.42	.27
WAIAHI UPPER 1052		17.46	1.01	.95	2.16	1.54	.60	.38	.15	.42	.83	1.20	.10	.12	.10	.10		.10	.04	.21	.95	1.35	.25	.15	.50	1.07	1.50	.39	.30	.15	.10	.49	.25
WAIAWA 943		.10			.04							.02																					
WAILUA KAI 1065	A	3.84	.22	.50	.45	.15	*	*	.05	.10	.12	.25		*	*	.03			.02	.02	*	*	.62	.20	.02	.20	*	*	*	.54	.19	.16	*
WAIMEA 947		.29										.05												.03		.03		.08	.10				
WEST LAWAI 931	A	4.76	.12	.46	.65	.29	*	*	.59	.10	.12	.24	.05	*	*	.02			.10	.03	*	*	.18	.13	.03	*	*	*	*	1.19	.28	.18	*
* * *																																	
ISLAND OF OAHU																																	
BERETANIA PUMPING STA		4.72	*	.11	.11	.44	.36	.05	.18	.09		.14	.03			T	.03		.04	.01	.09	1.06	.05	.12	.08	.12	.54	.40	.38	.22	.07		
CAMP 84 827	A	1.89	*	*	.10	*	*	*	.12	*	*	.17	*	*	*	.01	*	*	.03	*	*	*	.37	*	*	.02	*	*	*	1.01	*	*	.06
CHURCH COLLEGE LAIE		2.99	.10	.44	.07	.15	T	.06	.03	.04	.09	.09	.06		.01	.01	.03		.09	.61	.52	.01	.06	.06	.08	.05	.11	.05	.05	.04	.01	.02	.05
COCONUT ISLAND 840.1		1.51	.08	.18	.02	.04	.12		.03	.03	.01	*	.18		.01	.02			.01	.21	.17			.05	.03	.01	.05	.01	.01	.01		.21	.02
EWA PLANTATION 741		.43				.01			.09	.01													.01	T						.28	.01	.02	
HELEMANO INTAKE 881	A	10.94	*	*	1.00	*	*	*	*	1.72	*	.65	*	*	*	.40	*	*	.50	*	*	*	3.60	*	1.42	*	*	*	*	1.65	*	*	*
HOKULDA 725.2	A	1.91	.15	*	*	*	*	.33	*	*	*	.33	*	*	*	.01		*	*	*	*	*	*	.26	*	*	*	*	*	.57	*	*	.27
HONOLULU OBSERV 702.2		.49				.10	.05	T	T			.09						T									.01	.09	.15	T	T	T	T
HONOLULU WSFC 703	R	1.23	.01	.01	.01	.20	.02	.03	T	T	T	.07	T	T	T		T	T	T	.10	.02	.01	.05	T	.01	.06	.05	.41	.10	.02	.05	T	T
HONOLULU SUBSTA 704		2.69			.16	.64	.02	.12	.08		.06						.03	.03	.02	.04	.06	.03	.09	.04		.38	.13	.60	.12	.04			
H S P A EXP STA 707		3.97	.08	.22	.20	.42	.39	.04	.22	.14	T	.23	.08		T		.06		.03	.04	.23	.12	.03	.14	.13	.09	.51	.09	.15	.19	.03	.11	
KAHANA 883	A	21.08	*	*	*	*	*	*	7.20	*	*	*	*	*	*	4.90	*	*	*	*	*	*	4.90	*	*	*	*	*	*	4.08	*	*	*
KAHUKU 912	A	2.74		.05	.02	.08	*	*	.11	.15	.11	.19	.04	*	*	.01		.02	.17	.39	*	*	.56	.04	.34	.10	*	*	*	.30	.04	.02	
KAILUA FIRE STA 791.3		1.20	.02	.05	.07	.02	.03	.18	.03	.02	T	.12	.03	.01	T	T	T		T	.02	.02	T		.01	.15	.10	.02	.04	.05	.10	.07	.02	.02
KALIHI RES SITE 777		8.33	*	1.15	*	*	*	*	*	*	3.06	.62	.04	.02	.08	.06	.06		.18	.86	.16	.02	.06	.04	.62	.14	.14	.02	.10	.08	.02	.04	.76
KANEOHE MAUKA 781		4.25	.06	.37	.17	.17	.28	.05	.13	.20	.06	.17	.25	.02		.02	.01		.12	.26	.34	.02	.01	.20	.25	.51	.01	.13	.05	.10	.10	.16	.03
KANEOHE RANCH 838	A	2.41	.23	.27	.03	.08	.20	*	.30	.13	.01	.16	.25	.04	*	.02	.05	T	.03	.20	.08			.25	.13	.12	*	*	*	.05	T	.02	.01
KAPALAMA 773	A	8.20	.35	.80	.26	.40	*	*	1.20	.32	.10	.60	.18						.15	.25	*	*	1.78	.28	1.12	*	*	*	*	.10	.06	.15	.10
KAWAIHAPAI 841	A	1.39	.04	.05	.03	.08	*	*	.07	.05	*	.18	.09	*	*	.02				.02	*	*	.36	.16		.02	*	*	*	.22			
KAWAI I-I INTAKE 880.2	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KEMOO CAMP 8 855	A	2.99	.05	.15	.02	.04	*	*	.31	.05	.01	.10	.01	*	*	*	*	*	*	*	*	*	*	*	1.00	*	*	*	*	1.10	*	*	.15
KOOLAU DAM 833		22.08	.37	1.80	.62	3.20	1.71	.23	.54	1.03	.14	1.68	.92	.12	*	*	.16	*	.86	.34	.76	.62	.27	.87	1.22	1.23	1.98	.49	.15	.35	.10	.11	.21
LUALUALEI 804		2.14	.47	.01		.04	*	*	.95			.05	.01										.08	.12			.41						
LUALUALEI WTR TUNNEL	A	10.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.00	*	*	*	*	*	*	*	*	*	*	*	*	*
MANALILO HOME 724.2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAKAHA KAI 796.1	A	.10	.03	T			T						T						T					T				T	.07			T
MAKAHA PUMP 800.2	A	.24					.06																						.17		.01		
MAKAPUU POINT 724		1.48		.04		.06	.06	.02	.05	.06		.05	.45							.05	.03	.02			.01	.30	.04			.08	.04	.12	
MANOA 712		11.83	.29	.58	.56	.90	.82	.18	1.05	.54	.03	.82	.42		.03	.05	.07	.02	.05	.32	.86	.50	.02	.47	.51	.30	.31	1.14	.22	.12	.42	.10	.13
MANOA TUNNEL 2 716		15.62	.80	.88	.20	1.26	.18	1.38	1.00	.40	.48	2.26	.04	.04	.06	.02	.10		.08	1.56	1.38	.04	.32	.28	1.02	.76	.16	.10	.24	.14	.08	.10	.26
MOANALUA 770		5.17	.02	*	.43	.30	.66	.05	.12	.13		.19	.04				.01		.17	.08	.50	.14	.05	.25	*	.48	*	.92	*	.42	*	.19	.02
NUUANU RES 4 783		11.42	.94	.56	.06	.88	.22	.58	.48	.26	.42	1.26	.02	.02	.04	.14	*	*	*	*	*	*	2.74	.06	.86	.42	.12	.04	.18	.30	.06		.76
NUUANU RESERVOIR 5 775	A	14.55	.58	.98	.44	.82	*	*	1.40	.64	.05	1.11	.60	*	*	.14	.10	T	.28	.60	*	*	2.72	.87	1.34	.25	*	*	*	1.35	.05	.09	.14
OPAEULA 670	A	7.48	.14	*	*	*	*	*	2.00	*	*	.75	*	*	*	.20	*	*	.22	*	*	*	1.27	*	*	1.25	*	*	*	1.29	*	.12	.24
PALOLO VALLEY 718		10.76	.54	.38	.20	.66	.06	1.16	.74	.26	.34	2.48	.06				.04	.02	.06	.88	.66		.10	.16	.68	.48	.06		.28	.22	.06	.02	.10
PAUOA FLATS 784		20.68	.82	1.16	.24	1.32	.34	*	2.12	.76	.90	2.62	.12	.06	.12	.06	.18	.02	.40	2.20	1.58	.04	.78	.22	1.78	.66	.52	.08	.60	.06	.06	.04	.82
PORTLOCK ROAD 724.4		.76	.20	.30	.04	.03		.01						.04							.02	.03			.01	.06	.02						
PRI WAHIAWA 820.2	A	4.93	.06	.41	T	.05	*	*	.75	.10	.01	.07	.08	*	*	.01			.06	.02	*	*	.70	.18	*	*	*	*	*	2.22	.12	.08	.01
PUNALUU 884	A	5.68	.15	.36	.23	.19	*	*	.51	.91	.13	.33	.25	*	*	.11	.02		.07	.27	*	*	1.32	.13	.11	.30	*	*	*	.26	.01	.02	*
PUNCHBOWL CRATER 709	A	4.55	.03	.10	.20	.70	.43	.05	.06	.15	.01	.06	.05	.01	.01		.01	.01	.04	.03	.45	.03	.04	.05	.10	.07	.16	1.04	.39	.15	.05	.07	
ST STEPHENS SEM 788		3.87	.25	.38	.07	.20	.12	.12	.18	.26	T	.25	.27	T		.01	.09		.03	.50	.30	T		.15	.09	.22	.05		.01	.30	.01	T	.01
TANTALUS 2 780.5		20.78	.55	.86	1.52	1.17	1.54	.24	1.45	1.08	.06	1.52	.67	.14	.04	.05	.29	.03	.24	.68	1.41	1.45	.03	.84	.74	1.06	1.15	.62	.48	.48	.13	.13	.13
UNIV OF HAWAII 713	A	4.62	.14	.18	.25	.43	*	*	.85	.19	T	.28	.15	*	*	T	T		.08	.10	*	*	.30	.16	.12	.26	*	*	*	1.01	.06	.05	.01
WAHIAWA DAM 863	A	3.74	.12	.40	.02	*	*	*	.34	.10	.03	.17	.01	*	*	.01	*	*	.10	*	*	*	.59	*	.38	*	*	*	*	1.47	*	*	*
WAIAHOLE 837	A	9.07	.49	.94	.21	.31	*	*	.76	.46	.19	.44	.45	*	*	.08	.18		.14	.31	*	*	1.05	.67	.58	.54	*	*	*	.68	.05	.54	*
WAIALAE KAHALA 745		1.55	.02	.03	.23	.12	.12	.01	.06	.20	T	.04	.08	T		T	.03		.02	.02	.01			T	.01	.16	T	.06	.08	.20	.01	.01	.03
WAIALUA 847	A	1.67	.08	.07	.04	.12	.05	.04	.01	.05	T	.15	.04	.01			T	T		.02	.04	.16	.06	.08	.01	T	.15	.06	.40	.04	.01	T	T
WAIANAE 798.2	A	.19					.11												T	T	T							.01	.05	.02			
WAIANAE MAUKA 803	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAIMEA 836	A	22.83	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	22.83	*
WAIKANE 885	A	9.09	*	*	*	*	*	*	4.10	*	*	*	*	*	1.98	*	*	*	*	*	*	*	1.12	*	*	*	*	*	*	1.89	*	*	*
WAIKIKI 717.2		1.37	.01	.06	.12	.05	.12	.05	.08	.12		.02	.01		T	.01			.06	T	.02			.02	T	.14	.09	.04	.17	.13	.03	.01	
WAIMANALO EXP FARM		1.06	.02	.02	T	.06		.03	.04	.12		.12	.21			.01				.14	.08			.01	.01	.05	.02			.11	.01		
WAIMEA 892	A	5.72	.05	.50	.11	.42	*	*	.62	.35	.07	.28	.10	*	*	.04	.01	.02	.12	*			1.21	*	*	.81	*	*	*	.88	*	.13	*
WAIPAHU 750	A	1.18		.01	.03	.02	*	*	.10	.02		.02									*	*	.03	T			*	*	*	.83	.02	.10	
WILME MINA RISE 721		4.00	.22	.28	.28	.48	.10	.40	.14		.34	.34	.06		.02		.06	.02	.06	.14	.06	.04	.04	.06	.12	.32	.08	.08	.10	.14	.04		
* * *																																	
ISLAND OF MOLOKAI																																	
KALALAPAA 563	A	5.06	*	.32	*	.18	*	.26	*	.76	.10	.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.32
KAUNAKAKAI 536	A	.00																															
KEONELELE PETS 551	A	.00																															

See reference notes following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KUALAPUU 534	A	2.44	.01			.02	.04	*	.49	.05	.04	.32	.06						.51	.05			.05			.01		*	*	.64	.01	.09	.05
MAPULEHU 542		4.38	.46	.22	.02	.27	.59	.23	.08	.02	.22	.09	.06					.10	.07	.25	.21	.04	.07	.13	.18	.27	.11	.26	.20	.10	.08	.05	
MAUNALOA 511	A	.77		.01			*	*	.12	.02		.15	.02						.10	.02	*	*	.02		.02		*	*	*	.21	.08		*
MOLOKAI AP 524		1.72	T		.01	.01	.02	.05	.38	.02	.05	.18	.02						.19	.01	.02	.04				.01	.08	.08	.31	.22			.02
PUUOHOKU RANCH 542.1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAIKOLU 540	A	11.11	*	*	*	*	*	*	*	*	*	*	3.48	*	*	*	*	*	*	*	*	*	2.45	*	*	*	*	*	*	4.68	*	*	*	*
* * *																																	
ISLAND OF LANAI																																	
KANEPUU 690	A	.39				*	*	*	*	*	*	.05	*	*	*	*	*	*	.01	*	*	*	*	*	*	.32	*	*	*	*	*	*	.01
KAUMALAPAU HARBOR 658	A	.30																						.30									
LANAI CITY 672	A	.33		.01				*	.01		.01	.05	.14								*	*	.10	.01									
LANAIHALE 684	A	.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.58
MAHANA 694	A	.09	*	*	.01	*	*	*	*	*	*	.05								*	*	*	*	*	*	.03							
MALAUEA 676	A	.02				*	*	*	*	*	*	.02																					
WAIAKEAKUA 685	A	.45	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.35
* * *																																	
ISLAND OF MAUI																																	
AUWAHI-252	A	.30															.05				.25												
HALEAKALA 8 E S 434	A	26.47	.05	.38	2.63	1.71	.99	1.58	.48	.33			.02	.13	.12		.01		.79	3.50	2.52	1.39		.11	.01	.34	2.10	2.26	2.03	1.73	.53	.48	.25
HALEAKALA RANCH 432	A	11.30	*	*	*	1.52	*	*	.96	*	*	*	*	*	*	*	*	*	.41	1.70	*	*	1.17	*	*	*	*	*	*	4.92	.38	.24	*
HALEAKALA RS 338		25.24	.04	.68	1.46	.40	.72	.40	.06	.12	T	.01	.05	.08	.03				.26	1.43	.41	.74	T	.03	.01	.19	.91	3.65	7.10	4.04	2.03	.33	.06
HALEAKALA SUMMIT 338.4		14.64	.04	.57	.66	.08	*	*	.75	.05									T	.11	*	*	1.53	.09	.06	*	*	*	*	*	*	10.70	
HALIIMAILE 423	A	7.90	.01	.06	.17	.28	.83	*	.66	.22			.01	.12	*	.04			.19	1.44	.58	*	.43	.02		.13	*	*	*	2.22	.30	.12	.07
HAMAKUAPOKO 485		9.05	.12	.37	.65	.12	.89	.34	.11	.15	.14	.34	.35	.09	.19		.03	.01	.28	.82	.71	.42	.03	.23	.10	.10	.72	.33	.48	.48	.21	.12	.12
HANA 354		5.08	.13	.28	1.18	.02	.30	*	.16	.11	.06	.06	.06	.18	*	.06	.06	.02	.10	.25	.35	*	.21	.11	.05	.21	*	.67	*	.40	.01	.02	.02
HANA AIRPORT 355		6.40	.14	.57	.84	.03	.80	.23	.08	.15	.04	.16		.11	.10	.04	.10	.04	.11	.14	.93	.13	.49	.11	.06	.04	.09	.26	.27	.16	.04	.04	.10
HANAHULI 281		4.54		.81	.38	.39	.30	.25	.02	.17	.02	.09	T	.18	.20	T			.10	.15	.43	.12		.10	.13	.05	.08	.15	.32	.10	T		
HOLUA CABIN 259.5	A	6.40	.60	*	*	*	*	*	*	*	*	*	*	*	*	4.00	*	*	*	*	*	*	*	1.80	*	*	*	*	*	*	*	*	*
HONOKOHAU 480	A	16.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.60
HONOKOHUA 493	A	5.35	.56	.37	.35	.02	*	*	.82	.10	.02	.16	.29	*	*	.02			.17	.19	*	*	.58	.32	.06	.04	*	*	*	.98	.07	.10	.13
HONOMANU GULCH 341	A	40.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	40.00
KAANAPALI AIRPORT		1.63		.02	.02		.03	.05	.02			.02	T	.02					.04	.92	.08	.02	T					.17		.15	.04	.02	.01
KAHOMA INTAKE 374	A	14.82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	14.82
KAHULUI WSO 398	R	1.77	T	.05		.22	.11	.10	.05	.01	.01	.01	T	.01				T	.11	.07	.03				.01	T	.11	.15	.50	.09	.09	.03	.01
KAILIILI 436	A	22.06	*	*	*	2.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KAILUA 446		16.68	.60	1.01	2.69	.50	1.44	.67	.06	.28	.07	1.01	.54	.11	.10		.07	.03	.31	.52	1.35	.88	.03	.68	.22	.30	1.13	.10	.43	1.16	.08	.16	.15
KAUAULA INTAKE 375	A	5.65	*	*	*	*	.72	*	*	*	*	*	*	.63	*	*	*	*	*	*	2.06	*	*	*	*	*	*	2.24	*	*	*	*	*
KEAHUA 410		3.28		T	.04	.44	.30	.10	.04	.09				.01					.06	.50	.33	.15				.01	.03	.15	.39	.42	.18	.04	
KEANAE 346	A	30.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	30.50
KEANAKAPU BEACH 260.2		.01																			.01												
KIHEI 311		.06		.01	.03															T			.01							.01	T		
KIPAHULU 258		11.43	.04	1.20	1.12	.98	.90	.69		.31	.19	.15	.59		.62		.22		.07	.99	.59	.41			.11	.25	.30	.62	.31	.56	.07		.14
KULA HEIGHTS 323.2		2.47		.03		.12																.10	.23					.68	1.06	.25		
KULA SANATORIUM 267		.39	.19	T	T		.04	.01	T			.10									.02	.03										
LAHAINA 361		1.05																			.07								.98			
LAUNIUPOKO INTAKE 376	A	10.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.65
LAUNIUPOKO VILLAGE 372	A	1.03			.20																.10							.60	.13			
LUPI UPPER 442	A	22.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	22.60	*	
MAHINAHINA 466	A	6.24	.05	.18	.40	.12			1.03	.05	.03	.20	.14	.08					.30	.37	.67	.33	.05	.06		.05			1.74	.20	.14	.05	
NAKALELE -FLO 60-497	A	3.49	*	*	*	*	*	*	1.79	*	*	*	*	*	*	.38	*	*	*	*	*	*	.31	*	*	*	*	*	*	.64	*	*	.37
OLINOA 332	A	18.67	.01	.40	1.15	*	*	*	1.63	.05	*	T	*	*	*	.02	T		.30	1.62	*	*	1.05	.02	.01	.10	*	*	*	10.90	1.29	.11	.01
OLOWALU 296		.19																												.19			
OLOWALU GULCH 377	A	7.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.20
PAAKEA 350		25.93	1.81	1.67	3.50	.66	2.02	.50	.48	.77	.21	.58	.63	.26	.36	.16	.23	.24	.36	1.02	1.66	2.38	.26	1.04	.53	.52	.84	1.05	.86	.65	.12	.14	.42
PAIA 406		4.73	.03	.18	.26	.07	.39	.14	.10	.07	.10	.04	.13	.09	.09				.16	.55	.25	.10		.01	.09	.06	.22	.26	.38	.57	.15	.12	.12
PANILEIHULU 259.2	A	23.04	*	*	*	*	*	*	2.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.40
POHAKEA BRIDGE 307.2	A	.11	*	*	*	*	.02	.02																						.07			
POLIPOLI SPRINGS 267.2	A	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00
PUOHOKAMOA 2 343	A	54.00	*	*	*	*	*	*	*	*	*	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU KUKUI MAKAI 472	A	20.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10.40
PUUNENE 396		1.10			.02	T			.10	.03			T						.01	.08			.18				*	*	*	*	.64	.04	
SPRECKELSVILLE 400.2		2.85	T	.05	.11	.02	.24	.08	.10	.09	.10	.01	.02	.04	.07				.07	.26	.08	.07			.02	.03	.04	.23	.27	.49	.15	.10	.11
TWIN GATES 261.3	A	.00																															
UKULELE 333	A	24.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.00
UKUMEHAME 301	A	.29																												.19	.10		
ULUPALAKUA RANCH 250		.83	.10	.06		.58						.06											.03										
WAHIKULI 364	A	2.85			.03														.20	.75	.20					.05		1.05	.47	.10		
WAIEHU CAMP 484	A	2.39	.14	*	.19	*	.53	.28	.06	.03	*	.08	.16	*	*	*	*	*	.07	.13	.13	.06	*	*	*	*	*	.06	.19	.20	.08		*
WAIHEE VALLEY 482	A	3.80	.10	.06	.26	*	.72	.52	.13	.10	*	.11	.34	*	*	*	*	*	.14	.20	.34	.07	*	*	*	*	*	.12	.34		.25		*
WAIKAMOI 449	A	25.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25.70
WAIKAMOI DAM 336	A	67.14	.72	4.54	9.47	*	*	*	2.38	1.04	.05	.25	.14	*	*	1.00	.04	T	2.02	5.52	*	*	8.15	.56	.48	1.25	*	*	*	17.30	1.20	.48	.52
WAIKAPU 390	A	.85	*	*	*	*	.17	.07	.03	.02	*	*	*	*	*	*	*	*	*	*	.15	.02	*	*	*	*	*	.02	.10	.27			
WAILUKU 386		1.09	.05				.26	*	.12	.01			.02						.02	.10	.07	*	.02				*	.05	.11	.23	.03		
WAIOPAI RANCH 256	A	3.73	*	*	*	1.67															*	*	1.30								*	*	.76
* * *																																	
ISLAND OF HAWAII																																	
AHUA UMI 75	A	2.00	*	*	*	*	*	*	*	*	11.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00
AWINI 182.1	A	11.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
CITY OF REFUGE 27.4		.40		.05		T			.07												.16	.03						.09				
EAST HONOKANE 183.2	A	24.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.00	*	*
HAINA 214		16.98	.23	.97	.64	.12	1.12	1.64	.72	.13				.04	.46				.16	1.13	.54	1.15	.09	.18	.12	.32	.89	1.72	2.18	1.20	.68	.22	.33
HAKALAU 142		32.79	.53	3.62	5.55	.56	2.00	.58	.04	.15		.35	.30	.46	.34	.09	.20	.13	1.02	1.40	5.06	1.98	.35	.89	.58	1.05	.81	1.88	.98	.52	.50	.29	.52
HALEMAUMAU 52	A	16.96	*	*	*	*	*	*	*	2.84	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.12
HALEPIULA 117	A	17.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.50
HALEPOHAKU 111	A	6.04		T	.28	.15	T	T			.32		.10	.08	T				.10	.66	.72	2.50	.04	.16	.33	*	*	.58					.02
HAWAII VOLCNS NP HQ 54		34.26	.02	1.87	1.71	.07	.52	1.40	.52	.03	.01		.05	.80	.83	.12	.02	.16	.73	2.00	1.53	4.30	.94	1.09	.08	1.67	3.02	2.86	4.35	1.37	1.07	.96	.16
HAWI 168	A	7.47	.03	.45	.08	.06	*	*	1.10	.26	.03	.10	.08	*	*	.20			.05	.64	*	*	1.38	.20	.01	.16	*	*	*	2.43	.21	*	*
HILO COUNTRY CLUB 86.6		57.53	.50	4.65	9.00	.50	2.00	2.50	2.70	.05		.10	.50	1.55	.18		.08	1.15	2.95	2.10	2.00	2.95	1.60	.87	1.65	5.45	2.15	5.75	1.90	.85	1.25	.60	
HILO WSO 87	R	35.25	.70	9.33	1.35	.66	2.09	.78	.18	.05	.10	.42	1.38	.50	.30	T	.37	.83	1.43	4.31	1.75	.25	.81	.26	1.19	1.46	.90	1.45	.80	.28	.31	.74	.27
HOLUALOA 70	A	9.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.06	*	*	*
HOLUALOA BEACH 68	A	.59	.20	.20		.19																											
HONAUNAU 27		.19				.04		.01				.02				.02		.01	.02			.05						.02					
HONOHINA 137		34.13	.31	2.90	5.26	.46	2.20	1.32	.04	.21	.03	.13	.41	.49	.48	.11	.15	.13	.57	1.54	4.52	1.89	.70	1.46	.44	1.16	1.20	1.86	1.82	.40	.52	.42	1.00
HONOKANE 181.1	A	9.58	*	*	*	*	*	*	*	*	*	*	9.58	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
HONOMU MAUKA 138		53.33	1.45	4.75	10.95	.80	1.34	1.46	.27	.06	.02	.22	.66	.91	1.12	.33	.23	.11	1.38	2.27	5.08	2.33	1.76	1.50	1.20	1.49	2.70	2.91	2.84	.90	.71	1.11	.47
HONUAULA 71	A	4.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.80	*	*
HUALALAI 72	A	.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.64	*	*	*
HUEHUE 92.1	A	2.04	*	.31	1.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.48	*	*	*	*	*	*	.10	*	*	*	*	*
KAALA IKI 12	A	4.45	.03	.01	.31		T		.07											.57	.62	2.61	.01	.03				.16	.03				
KAANALOA 29	A	1.25	.15	.37	.35	.02	*	*	.24												*	*	.12		*	*	*	*	*	*	T		
KAINALIU 73.2		1.80	.45	.91	.22	.04			.01													.08	.01					.03	.03	.02			
KALAPANA NO 1 67.8		25.47	T	.67	4.78	.45	.84	T			T	.02	T	.10	.36	*	*	.20	.22	.93	6.30	2.60	*	*	.68	.62	1.31	.82	2.75	*	*	*	1.82
KAMADA NO 2 5	A	4.85	*	*	*	*	*	.24	*	*	*	*	*	*	*	*	*	*	*	*	*	4.55	*	*	*	*	*	*	*	*	*	*	*
KAMUELA 192.2		4.73		.06	.02		.20	.73	.07	.03										.12	.27	.33				.02	.03	.67	.88	.56	.48	.26	
KAPAPALA RANCH 36	A	3.69	*	*	*	*	*	.42	*	*	*	*	*	*	*	.09	*	*	*	*	*	2.78	*	*	*	*	*	*	.40	*	*	*	*
KAPOHO LANDING 93.5	A	13.71	*	*	*	5.39	*	*	*	*	*	*	3.23	*	*	*	*	*	*	2.47	*	*	*	*	*	*	*	*	*	*	2.62	*	*
KAWAINUI LOWER 193	A	22.52	*	*	*	2.09	*	*	*	*	*	*	6.53	*	*	*	*	*	*	5.40	*	*	*	*	*	*	*	6.90	*	*	*	1.60	
KEAAU 92		37.43	.80	2.00	6.17	.42	2.25	2.51	.40	.30	.02	.11	.55	1.48	.82	.25	.20	.05	1.33	2.50	5.02	.88	.89	.85	.43	1.16	1.13	.92	1.85	.30	.15	1.24	.45
KEALAKEKUA 26.2		.90	.07	.25	.28	T	.01		.18												T	.09	.01	T						.01			
KEHENA 181.2	A	24.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24.00	*	*
KIOLAKAA A & F 6	A	18.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18.00	*

See reference notes following Station Index

DAILY PRECIPITATION

Continued

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KIPA 89.2	A	61.72	.16	4.44	12.95	.97	1.67	4.20	1.00	.02	.03	.01	.29	1.27	1.25	.39	T	.11	1.87	3.87	2.97	2.81	1.50	2.32	.45	1.95	2.75	4.82	3.57	1.27	.85	1.22	.73
KOHALA 179..	A	8.98	.06	.75	.18	.08	*	*	1.52	.45	.02	.09	.15	*	*	.23			.08	.56	*	*	1.35	.29	.01	.17	*	*	*	2.80	.19	*	*
KOHALA MAUKILI 176	A	10.89	.04	.94	.13	.12	*	*	2.00	.41	.02	.08	.16	*	*	.22			.13	.69	*	*	2.17	.17	.02	.28	*	*	*	3.05	.26	*	*
KOHALA MISSION 175.1		10.81	.05	.86	.14	.07	.94	.61	.18	.96	.04	.08	.08	.07	.16	T	.02	*	*	.68	.71	.78	.21	.26	.01	.27	.30	1.44	1.10	.46	.24	.34	.09
KOHAKE [illegible] 196	A	16.08	*	*	*	1.70	*	*	*	*	*	*	4.00	*	*	*	*	*	*	4.00	*	*	*	*	*	*	*	4.80	*	*	*	*	1.58
KONA (KAI) JAIL 68.9		.38	.02	.34	T																*	*	.02										
KONA VILLAGE 93.8		.38																			.38												
KUKAIAU 222		30.77	.03	2.26	3.05	.05	1.34	3.28	.67	.11			.01	.24	1.37	T			.42	1.38	1.09	2.53	.53	.91	.10	.86	1.86	2.43	3.42	1.13	.78	.32	.60
KUKUIHAELE HT 199		15.34	.24	1.80	.30	.32	.40	1.40	.42	.29				.02	.24				.02	.94	.36	1.42	.01	.06	.02	.60	1.10	1.72	1.52	.72	.70	.40	.32
KUKUIHAELE MILL 206	A	12.40	.55	1.52	.29	.17	*	*	2.82	.15				*	*	.19			.10	.62	*	*	.87	.05	.04	*	*	2.12	*	1.88	.39	*	.64
KULANI CAMP 79		38.37	.03	1.76	2.62	.03	1.09	1.51	.47	.01	.01		.06	.41	.80	.15	.02	.12	.82	1.57	1.62	6.00	1.09	1.20	.22	1.80	2.47	4.00	4.83	1.48	1.16	.77	.25
KULANI MAUKA 76	A	20.56	.57	1.20	.11	.15	.97	.43					.22	.30				.03	1.40	.72	2.97	1.80	.28	.15	.67	1.22	1.72	2.75	1.72	.73	.34	.11	
KULANI SCHOOL SITE 78	A	37.60	*	*	*	*	12.08	*	*	*	*	*	*	1.97	*	*	*	*	*	*	5.05	*	*	*	*	*	*	18.50	*	*	*	*	*
LANIHAU 68.2		2.13	.16	.59	.16	.59			.06											.10		.22						.25				
MANUKA 2	A	4.45	1.45	*	*	2.25	*	*	.27	.01		.01		*	*	.02					*	*	.37				*	*	*	.07			
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAUNA LOA SLOPE OBS		1.87	.06	.10	.04	.03	.12							.04					.02	.12	.45	.66			.01	.03	.06	.10	.03				
MIDDLE HOLUALOA 68.1	A	.99	.41	.45	*	.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MIDDLE PEN 147.1	A	1.44	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.44	*	*	*	*	*	*	*	*	*	*	2.10
MOAULA 18	A	2.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MOUNTAIN VIEW 91		48.15	.80	4.15	5.45	.23	2.57	2.86	.42	.06	.02	.07	.20	1.87	1.03	.33	.19	.22	.87	2.65	5.31	.84	1.02	1.79	.39	1.74	3.02	2.46	4.91	.78	.28	.93	.67
NAALEHU 14	A	5.60	.01	.01	.06									*	*	.03				.55	.32	4.60	T	.02		T	T			.01			
NAPOOPOO 28	A	.98	*	*	*	*	*	*	.87								*	*	*	*	*	*	.10	*	*	*	*	*	*				
NAULU FOREST 38.6		17.06		.53	2.90	.02	.12				T	T	T	.06	.51	*	*	.08	.18	.60	3.20	2.74	*	*	.33	.52	1.21	.50	1.78	*	*	*	1.78
NIULII 179	A	10.03	.14	1.00	.33	.13	*	*	1.85	.56	.04	.07	.05	*	*	.15			.12	.57	*	*	1.35	.39	.03	.22	*	*	*	2.83	.20	*	*
OOKALA 223		31.24	.15	2.21	5.73	.22	1.73	2.71	.47	.24	.01	.01	.02	.37	.58	T			.49	1.30	1.70	1.36	.89	1.00	.16	1.06	1.48	1.93	2.90	.91	.69	.36	.56
OPIHIHALE 2 24.1		2.03	.02	1.62	T	.01	T													.08	.20	.01					T	.09	T	T			
ORCHID LAND EST 91.5	A	27.36	*	*	*	9.34	*	*	*	*	*	*	6.28	*	*	*	*	*	*	7.07	*	*	*	*	*	*	*	*	*	*	4.67	*	*
PAAUHAU 217		15.83	.12	1.02	.92	.34	1.24	1.09	.67	.09				.09	.41				.18	.97	.64	1.07	.14	.20	.10	.31	.83	1.27	1.66	1.05	.95	.17	.30
PAAUILO 221		24.42	.03	1.69	1.51	.04	1.62	2.01	.85	.08			T	.09	1.27	T			.25	1.26	.91	2.34	.22	.44	.06	.61	1.58	2.08	2.82	.73	.94	.22	.77
PAHALA 21		*	.02	.10	.53									*	*	.02				.23	*	*	2.11			.08	*	*	*	.35		*	*
PAHOA 65		39.99	.54	1.19	4.39	.50	2.30	2.55	.34	.28	.04	.15	.35	1.07	.59	.19	.23	.27	.74	1.58	8.35	1.36	1.58	1.79	.31	1.59	1.26	1.03	2.05	.33	.31	2.18	.55
PAKAO 37	A	6.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.60
PAPAIKOU 144.1		43.00	.76	2.98	10.59	.25	1.41	1.84	.29	.08	.05	.18	.81	.89	1.05	.24	.26	.51	1.46	2.42	4.20	1.73	.71	1.23	.86	1.15	2.08	.86	1.91	.72	.26	.57	.65
PAPAIKOU MAUKA 140.1		56.74	.50	4.72	13.27	.41	1.23	1.65	1.03	.10	.02	.14	1.03	1.35	1.20	.54	.06	.18	1.15	3.76	3.51	2.82	1.31	2.00	.64	1.57	2.70	3.37	3.06	.70	1.13	.90	.69
PEPEEKEO MAKAI 144		32.47	.38	3.05	4.60	1.22	1.79	.87	.08	.07	.11	.35	.54	.22	.41	.07	.17	.18	1.09	1.17	4.82	1.01	.35	.87	.67	1.38	2.00	1.80	.93	.27	.79	.80	.41
PIIHONUA 89	A	48.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	48.00
POHAKULOA 10	A	1.91	*	*	*	.68	.02	*	*	*	*	*	*	*	*	*	*	*	*	.03	.11	.90	.01	*	*	*	*	*	*	*	*	*	.16
PUAKU 95.1	A	.14				.01	T														T	.13											
PUU KIHE 120	A	20.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20.00
PUU LAAU 102.1	A	2.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.05
PUU LEHUA 73	A	1.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.90
PUU MALI 113	A	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00
PUUOKUMAU 167	A	11.09	*	*	1.33	*	*	*	1.90	*	*	*	*	*	*	*	*	*	.36	*	*	*	*	*	*	3.70	*	*	*	*	3.80	*	*
PUU UO 82		29.54	.05	1.23	2.18	.13	.56	1.37	.15	.06			.01	.50	.62	.12	T	.06	1.08	1.58	1.05	6.90	.71	1.09	.18	1.19	2.31	1.62	2.87	1.26	.32	.23	.11
PUU WAAWAA 94.1	A	.87			T																.30	.57											
SADDLE ROAD 1 84	A	58.03	*	20.70	*	*	*	*	*	*	*	*	7.23	*	*	*	*	*	*	8.10	*	*	*	*	*	*	*	*	*	*	*	*	22.00
SOUTH POINT CORRAL 3	A	2.45	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.30	*	*	*	*	*	.15	*	*	*	*	*
UMIKOA 118		32.07	.03	2.00	1.04	.05	1.10	2.94	.06					.12		.13				1.08		3.65		.23		1.67	2.67	4.80	4.98	1.80	2.80	.92	
UPOLU POINT USCG 159.2		5.58		.26	.05	.15	.35	.29	.04	.09			.02		.02	.17			.06	.35	.45	.48		.08		.15	.17	.73	.86	.23	.17	.38	.03
WAIAKEA SCD 88.2		46.64	.32	3.94	2.93	.47	2.43	2.98	.82	.08		.05	.16	1.26	.99	.34	.07	.28	1.22	2.69	3.80	3.42	.66	1.74	.61	1.90	2.25	2.95	4.95	.81	.51	1.14	.87
WAIMEA KOHALA		2.50	T	.03	T	T	.14	.10	T	T				T		T				.05	.20	.29	T	.02	T	T	T	.35	.45	.32	.50	.05	T

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN 02	08	14	20	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
LIHUE WSO 1020.1	6	15.5	16.1	35	NE	27	74	75	68	72	4	16	8	0	0	0	28	24	7.7
HONOLULU WSFO 703	6	15.9	16.5	40	NE	25	72	71	60	71	12	14	4	0	0	0	30	76	5.5
KAHULUI WSO 398	5	14.3	15.3	30	NE	12	81	80	62	80	4	13	6	1	0	0	24	68	4.4
HILO WSO 87	26	0.6	6.5	20	NE	28+	85	79	71	81	1	1	10	9	7	3	31	14	8.0

See reference notes following Station Index.

DAILY TEMPERATURES

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	65	63	64	62	64	65	63	70	68	75	67	67	69	70	67	66	65	67	68	65	72	65	63	62	58	55	60	66	61	67	66	65.3
	MIN	55	56	55	55	53	52	52	57	55	55	55	54	50	52	55	53	56	57	58	56	54	55	54	53	51	49	49	52	52	50	47	53.5
KILAUEA POINT 1133	MAX	77	76	77	75	79	76	77	76	77	77	77	78	77	78	78	78	78	76	76	77	76	76	77	76	74	72	74	74	74	74	74	76.2
	MIN	68	64	64	70	70	71	70	70	70	71	72	71	71	70	72	72	72	70	68	69	70	69	63	70	69	67	67	69	66	69	69	69.1
LIHUE WSO 1020.1	MAX	80	79	80	79	81	79	78	80	80	80	80	81	80	80	81	80	79	80	79	79	79	79	79	79	77	77	78	77	76	77	77	79.0
	MIN	73	70	70	72	74	70	71	73	72	73	74	75	75	69	68	73	71	74	74	75	72	72	71	71	70	67	68	70	66	66	71	71.3
MAKAHUENA POINT 940.1	MAX	81	82	79	80	80	77	78	79	80	81	83		78	81	81	83	79	80	81	78	80	76	80	76	78	76	77	77	76	77	77	79.0
	MIN	72	72	73	69	68	72	73	72	68	70	73		67	74	68	72	70	66	67	70	70	70	68	68	71	72	61	70	70	67	64	69.6
MANA 1026	MAX	83	82	82	85	82	86	84	82	81	82	83	84	83	86	86	85	84	83	82	83	84	82	85	80	84	79	81	83	81	79	80	82.8
	MIN	65	65	63	64	61	62	60	62	64	65	61	62	62	61	62	63	61	62	62	62	62	64	62	58	69	62	61	57	59	62	59	62.1
NIU RIDGE 1035	MAX	80	79	78	79	80	78	82	79	79	79	78	80	81	80	80	79	78	79	80	79	79	79	78	80	79	79	78	78	79	78	79	79.1
	MIN	60	60	59	60	58	59	57	60	59	60	60	60	60	60	59	60	60	60	61	59	60	60	60	61	60	61	59	58	60	60	60	59.7
WAIAHI LOWER 1054	MAX	76	76	76	75	75	74	75	76	76	77	76	75	77	78	78	78	77	78	74	74	74	75	74	74	75	74	74	74	72	74	75	75.4
	MIN	66	66	65	65	64	63	64	66	67	66	66	64	65	63	61	61	66	66	67	67	66	66	66	65	63	63	64	64	60	60	60	64.4
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	81	80	81	80	81	80	79	79	81	81	78	80	81	81	85	82	81	80	81	80	80	80	81	78	79	78	76	76	76	76	76	79.6
	MIN	68	68	66	66	67	67	65	65	66	67	67	66	66	62	65	66	69	69	67	70	68	68	67	68	67	65	65	66	65	62	61	66.3
HONOLULU WSFC 703	MAX	81	81	82	80	80	80	80	82	80	79	81	81	82	86	83	81	80	81	81	80	80	79	78	79	76	77	76	77	76	77	79	79.8
	MIN	71	71	71	70	71	70	70	71	71	70	71	71	71	68	70	70	70	71	71	70	70	70	69	69	66	66	66	67	65	68	68	69.5
HONOLULU SUBSTA 704	MAX	79	79	79	77	78	76	77	80	78	77	79	79	79	81	79	77	77	78	78	78	77	76	76	76	73	73	74	74	72	76	77	77.1
	MIN	71	71	69	69	73	70	70	72	70	70	72	74	74	70	72	74	71	72	72	73	71	71	70	69	67	65	66	67	67	69	69	70.3
KAHUKU 912	MAX	80	80	80	79			80	79	79	77	77			80	80	81	80	79			78	77	78	77				77	76	75		
	MIN	71	70	70	73			69	69	73	69	73			74	74	70	68	67			69	69	67	68				65	66	65		
KANEOHE MAUKA 781	MAX	79	79	79	79	76	78	74	79	78	75	75	79	78	78	81	78	78	76	77	77	78	77	78	73	75	73	74	75	75	75	75	76.8
	MIN	72	71	69	69	70	68	68	68	69	69	68	72	73	71	67	71	69	69	70	72	72	72	70	67	68	66	66	65	64	67	62	68.8
LUALUALEI 804	MAX	82	82	82	82	80	81	81	81	82	80	80	82	80	82	83	82	81	79	80	81	81	79	79	78	78	76	74	78	72	77	78	79.8
	MIN	72	72	72	70	71	70	68	73	71	71	72	72	68	66	63	72	70	73	72	73	69	72	73	70	68	67	68	67	65	67	68	69.8
MAKAPUU POINT 724	MAX	80	75	75	75	76	76	75	75	80	75	72	75	75	75	79	76	74	75	73	74	75	74	74	73	73	72	72	69	70	71	72	74.4
	MIN	66	65	69	68	64	64	65	68	68	67	68	68	69	68	69	66	68	65	69	68	68	67	68	66	67	63	62	58	61	63	63	66.1
OPAEULA 870	MAX																																
	MIN																																
PRI WAHIAWA 820.2	MAX	80	78	79	79	78	76	80	78	80	77	77	78	78	80	83	81	80	77	78	76	79	76	76	73	73	72	70	76	75	75	76	77.2
	MIN	65	66	65	64	65	66	64	65	65	65	65	67	68	61	61	65	65	67	66	68	65	65	66	66	63	62	62	61	62	61	61	64.4
WAIALUA 847	MAX	82	81	80	80	78	80	78	79	81	78	77	80	81	81	85	83	81	79	80	80	80	77	78	77	77	75	74	75	77	75	77	78.9
	MIN	64	64	63	62	64	65	67	65	64	65	64	65	66	63	63	64	67	66	68	67	67	63	63	63	64	64	66	66	63	57	59	64.2
WAIKIKI 717.2	MAX	83	82	82	83	80	83	80	82	84	82	81	83	83	87	88	84	84	82	85	83	81	81	83	79	80	78	79	79	79	79	80	81.9
	MIN	72	72	71	70	72	71	70	71	72	71	72	73	73	68	68	73	71	71	73	73	72	71	71	69	70	68	68	67	67	67	69	70.5
WAIMANALO EXP FARM	MAX	80	79	79	78	79	79	76	79	80	79	75	78	79	79	83	81	79	78	78	80	79	78	79	78	78	75	76	76	77	76	78	78.3
	MIN	72	72	72	70	71	70	68	70	70	69	68	68	67	68	72	71	70	69	71	70	71	70	70	68	68	68	67	65	66	64	68	69.1
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	79	79	78	78	77	78	77	77	79	78	78	78	81	81	84	82	77	77	78	78	79	77	77	78	75	75	75	74	76	74	77	77.8
	MIN	69	71	70	69	70	72	69	67	67	69	70	69	72	67	67	67	69	69	70	71	69	67	69	69	68	67	68	67	67	67	68	68.7
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	74	72	73	73	76		74	71	74	75	71	73	72	78	76	79	77	71	72	73	75	74	74	73	73	69	68	71	68	67	70	72.9
	MIN	66	65	65	64	65		62	64	63	64	66	66	60	61	63	62	65	64	63	64	64	63	64	64	64	62	62	63	62	61	57	63.3
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	58	57	53	58	53	60	60	62	62	65	59	59	60	66	66	66	62	52	56	60	59	58	55	53	49	47	44	44	44	45	53	56.3
	MIN	44	47	42	43	44	45	39	45	48	45	44	43	47	47	46	47	45	46	48	46	38	43	44	41	39	38	35	35	36	35	41	42.8
HALEAKALA SUMMIT 338.4	MAX	50	50	47	48	44	51	53	51	54	56	52	50	54	52	56	55	50	49	46	45	50	51	48	44	44	40	35	35	34	35	49	47.7
	MIN	39	40	36	36	40	40	38	40	40	40	39	40	44	40	41	40	38	36	39	38	38	36	36	34	33	30	28	27	28	31	35	36.8
HANA AIRPORT 355	MAX	79	78	80	79	81	79	78	80	80	80		77	79	80	80	79	76	78	77	80	79	79	79	78	73	76	76	75	77	78	78	78.3
	MIN	68	69	67	67	67	68	67	69	70	68		69	70	69	69	70	70	69	69	69	69	67	67	65	65	68	71	65	68	67	64	68.0
KAANAPALI AIRPORT	MAX	82	80	80	80	78	80	80	78	80	80	80	80	80	82	81	80	80	77	79	79	81	81	80	81		78		75	75	75	76	79.2
	MIN	63	71	70	70	69	69	70	70	69	69	70	72	66	66	66	68	69	69	69	70	69	71	69	70		66		66	66	65	65	68.3
KAHULUI WSO 398	MAX	82	80	82	80	81	82	81	82	83	82	82	81	85	85	86	81	79	80	80	82	81	81	82	80	82	78	75	77	77	78	79	80.8
	MIN	71	71	71	70	69	70	68	71	64	65	72	70	59	61	62	61	70	66	67	72	69	70	68	69	66	67	66	65	64	62	62	67.0
KAILUA 446	MAX	78	79	78	78	77	75	74	73	75	76	75	74	74	75	75	75	75	75	75	75	74	73	68	71	71	70	70	70	68	69	71	73.7
	MIN	65	66	65	65	65	67	66	65	66	66	66	68	67	67	67	68	65	65	65	66	66	65	62	65	63	63	61	59	62	62	62	64.8
KEAWAKAPU BEACH 260.2	MAX	87	87	88	85	85	88	85	82	87	84	84	86	87	84	84	84	87	87	88	86	87	84	85	87	86	81	85	85	85	83	85	85.4
	MIN	64	64	64	63	62	63	60	62	61	63	61	61	60	61	62	60	62	63	65	64	60	60	59	58	59	60	60	60	63	57	57	61.2
KULA SANATORIUM 267	MAX	72	70	71	72	70	71	70	73	74	72	70	72	75	74	71	72	71	71	72	73	71	70	70	72	70	68	69	69	69	68	68	71.0
	MIN	56	56	54	55	57	58	56	54	55	56	55	56	54	55	56	52	53	58	58	57	54	54	53	54	52	52	53	51	50	49	50	54.3

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII DECEMBER 1970

Station		Day of Month																													Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX	85	84	85	84	84	85	85	85	84	84	83	86	85	84	83	84	85	80	84	84	85	83	85	85	82	74	74	73	81	80	83	82.8
	MIN	67	68	67	67	67	65	65	68	66	68	66	66	64	65	65	64	69	68	67	67	66	66	66	67	65	66	66	61	61	60	63	65.7
WAILUKU 386	MAX	79	78	77	78			78	76	79	79	78	79			74	82	81	79				86	78	86					78	77		
	MIN	70	70	70	70			68	70	70	70	69	70			68	68	70	69				68	68	69					68	67		
• • •																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	81	79	73	78	77	76	77	75	78	78	79	79	75	79	82	80	77	75	75	76	77	77	76	73	75	72	69	73	72	72	73	76.1
	MIN	66	66	64	63	62	66	65	66	64	64	67	67	66	63	63	68	64	63	64	65	66	65	65	64	64	62	61	59	57	62	63	64.0
HAWAII VOLCNS NP HO 54	MAX	67	68	61	62	65	61	61	67	67	67	68	63	64	66	67	64	63	65	61	62	59	63	61	59	59	57	55	57	56	56	58	62.2
	MIN	53	56	54	51	54	55	52	52	51	53	53	52	52	50	51	52	52	57	54	54	52	53	51	50	52	49	47	48	45	47	49	51.6
HILO WSO 87	MAX	81	73	81	81	83	81	80	85	83	82	81	81	84	85	84	82	78	78	81	82	81	81	77	77	73	75	73	78	78	79	81	80.2
	MIN	65	69	66	63	65	67	65	63	64	65	66	65	64	64	66	64	67	67	67	67	66	66	63	64	66	65	65	67	66	64	61	65.2
KAINALIU 73.2	MAX	79	78	78	78	78	78	78	77	79	78	79	79	80	78	78	79	78	78	79	80	77	77	77	77	76	77	73	76	76	75	75	77.6
	MIN	62	62	62	61	61	61	61	60	60	58	60	60	60	60	59	58	60	62	65	62	61	61	59	59	59	59	59	57	57	57	57	60.0
KAMUELA 192.2	MAX	72	70	69	70	69	70	70	68	71	70	71	70	68	75	76	72	69	68	71	69	67	67	68	67	67	62	62	65	63	62	65	68.5
	MIN	56	58	57	55	57	57	58	56	57	57	56	57	48	47	45	48	56	53	54	57	57	56	52	53	56	54	52	53	53	52	53	54.2
KEAAU 92	MAX	80	78	71	78	77	78	78	79	80	80	79	78	72	80	79	79	77	75	74	75	77	78	78	74	75	75	75	75	74	73	78	76.7
	MIN	64	64	65	63	63	66	65	65	64	63	64	65	64	64	64	64	64	65	65	64	65	64	63	62	61	61	61	61	62	61	58	63.4
KEALAKEKUA 26.2	MAX	80	79	78	77	79	78	78	78	78	79	78	79	79	77	78	79	78		79	79	78	76	76	77	77	76	77	76	76	75	76	77.7
	MIN	63	63	63	62	62	63	61	61	61	60	62	61	62	60	61	60	61		65	62	62	62	61	60	60	62	60	58	59	58	58	61.1
KOHALA MISSION 175.1	MAX	79	77	74	76	75	74	75	75	77	78	77	77	73	77	80	77	75	71	74	75	74	74	74	72	73	67	69	72	71	71	72	74.4
	MIN	67	66	66	64	64	66	66	67	67	65	67	67	67	65	64	68	66	66	64	65	64	64	66	65	63	62	61	62	63	61	61	64.8
KONA (KAILUA) 68.3	MAX	84	83	83	82			84	84	84	83	83			84	83	83	82	83			84	83	81	83				83	81	81	
	MIN	70	67	69	68			68	67	68	66	67			66	67	67	67	69			68	66	67	68				64	63	63	
KULANI CAMP 79	MAX	61	64	58	58	66	57	58	68	61	62	67	64	60	61	60	60	74	58	61	66	55	58	56	55	53	53	52	50	50	52	55	59.1
	MIN	47	46	49	47	44	51	49	47	43	46	47	46	46	40	40	45	47	50	51	50	48	48	44	45	48	43	42	42	42	43	45	45.8
MAUNA LOA SLOPE 085	MAX	46	44	42	42	42	48	53	51	50	48	43	48	48	52	54	50	47	46	44	45	47	45	42	41	39	35	32	33	35	41	45	44.5
	MIN	33	34	32	30	33	34	33	35	35	30	32	35	32	37	37	33	33	34	34	34	34	31	28	28	29	26	23	23	26	24	28	31.3
MOUNTAIN VIEW 91	MAX	75	72	67	70	74	74	74	73	75	77	76	75	75	75	73	73	72	69	71	71	71	71	71	67	69	69	69	69	66	66	74	71.7
	MIN	58	61	61	58	59	59	59	60	59	60	61	59	59	59	59	60	60	62	60	60	60	60	58	58	56	56	56	56	57	57	54	58.7
NAALEHU 14	MAX	78	79	77	77	77	78	78	78	78	78	79	79	78	78	80	78	78	78	78	78	78	76	75	76	76	76	76	76	75	74	74	77.2
	MIN	66	69	65	65	65	64	64	68	65	66	67	67	68	68	68	68	68	65	65	65	65	66	67	67	67	67	61	61	65	62	62	65.7
OOKALA 223	MAX	80	78	73	77	77	76	77	76	79	79	79	79	74	80	83	80	78	73	75	77	75	76	75	74	74	69	69	74	73	73	75	76.0
	MIN	66	66	64	63	64	64	64	65	67	67	67	67	64	65	66	64	65	65	65	64	65	64	64	63	64	61	60	59	62	60	61	64.0
OPIHIHALE 2 24.1	MAX	75	74	73	75	76	79	76	76	77	76	76	77	77	77	78	76	77	75	74	75	75	75	74	75	74	71	75	74	73	73	72	75.2
	MIN	60	60	59	59	58	57	56	56	56	56	56	57	58	58	56	56	58	60	60	60	58	57	57	57	56	56	54	54	53	52	52	56.8
PAHALA 21	MAX	79	81	78	77			80	79	81	80	80			82	82	80	81	83			78	73	77	77				78	77	78	
	MIN	61	62	64	62			60	60	60	60	63			62	64	64	65	64			65	64	63	62				61	64	58	
PUAKO 95.1	MAX	84	84	83	84	85	81	85	85	84	85	84	84	84	83	84	84	85	83	87	85	85	83	83	83	84	79	78	79	77	78	81	83.0
	MIN	66	68	70	68	67	70	69	65	66	67	69	71	64	64	64	66	67	67	67	69	73	71	66	69	68	70	70	68	69	69	63	67.7
UPOLU POINT USCG 159.2	MAX	81	82	77	78	79	80	78	79	81	80	79	79	79	80	82	81	78	75	79	78	78	83	81	78	74	79	83	71	75	78	79	78.8
	MIN	72	68	71	67	67	70	69	67	71	68	71	69	69	68	69	65	69	69	64	68	66	67	67	67	65	66	63	63	64	65	65	67.4
WAIMEA KOHALA	MAX	74	71	72	71	70	69	69	73	73	72	73	71	73	72	76	73	71	70	72	70	67	69	68	69	69	68	65	65	63	63	65	69.9
	MIN	54	51	54	52	52	44	55	54	52	53	56	56	48	45	45	52	50	51	54	44	44	44	46	52	50	47		48		52	47	50.1

EVAPORATION AND WIND

Station		Day Of Month																													Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
• • •																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.23	.19	.17	.26	.31	.20	.23	.20	.18	.15	.19	.18	.17	.21	.20	.22	.28	.25	.16	.18	.18	.26	.22	.28	.26	.27	.42	.32	.26	.34	.26	7.23
	WIND	-	-	-	-	-	-	-	-	-	-	-	199	238	157	96	219	262	265	232	272	273	273	269	288	296	386	391	367	315	220	204	-
	MAX	82	79	75	78	78	78	75	75	79	76	78	78	78	79	81	78	78	74	75	75	76	75	75	73	73	69	70	72	71	73	74	75.8
	MIN	65	65	64	63	63	62	62	63	69	64	64	64	64	64	64	65	64	63	65	65	63	63	63	63	62	59	58	59	58	58	60	62.8
• • •																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.17	.18	.26	.16	.14	.18	.19	.19	.13	.15	.24	.15	.15	.15	.22	.21	.19	.18	.16	.21	.20	.20	.18	.21	.24	.13	.18	.30	.15	.11	5.66
	WIND	25	30	41	30	34	46	34	37	28	21	20	29	39	18	16	37	55	54	34	49	56	48	58	67	67	92	88	88	86	45	39	1411
	MAX	86	83	84	82	76	81	82	83	86	83	82	84	84	83	85	85	82	81	83	83	82	81	78	79	80	75	77	74	78	77	79	81.2
	MIN	65	66	65	64	64	64	64	64	64	65	65	65	63	63	63	65	64	64	66	65	64	63	63	62	62	60	59	58	58	59	59	63.1

See Reference Notes Following Station Index

PRECIPITATION MEASURED IN STORAGE GAGES

Station	Obser – vation date	Amount since last obs.	Snow on ground
SLAND OF KAUAI			
	1970		
HALEI TUNNEL 1053	JAN 31	12.60	
	FEB 28	2.40	
	MAR 31	1.10	
	APR 30	18.00	
	MAY 31	11.00	
	JUN 30	5.00	
	JUL 31	7.00	
	AUG 31	8.00	
	SEP 30	8.80	
	OCT 31	7.00	
	NOV 30	15.00	
	DEC 31	28.00	
TAL		123.90	
	1970		
NAILUA RIVER 1055	JAN 31	5.40	
	FEB 28	2.00	
	MAR 31	3.00	
	APR 30	12.40	
	MAY 9	37.20	
	MAY 31	10.40	
	JUN 30	*	
	JUL 31	7.20	
	AUG 31	5.60	
	SEP 30	5.00	
	OCT 31	5.60	
	NOV 30	23.60	
	DEC 31	8.40	
TAL		125.80	

Station	Obser – vation date	Amount since last obs.	Snow on ground
ISLAND OF MAUI			
	1970		
HAELAAU 477	JAN 31	6.40	
	FEB 28	4.40	
	MAR 31	6.50	
	APR 30	3.72	
	MAY 30	9.00	
	JUN 30	6.00	
	AUG 1	14.00	
	AUG 29	8.00	
	OCT 3	7.80	
	OCT 31	5.50	
	NOV 30	24.00	
	JAN 2	20.00	
TOTAL		115.32	
	1970		
HONOLUA FLD 49 494	JAN 30	6.09	
	MAR 2	2.12	
	MAR 31	1.97	
	APR 30	5.52	
	MAY 29	1.53	
	JUN 30	2.71	
	JUL 31	4.76	
	AUG 31	2.70	
	SEP 30	1.71	
	OCT 31	2.18	
	NOV 30	15.44	
	DEC 31	4.70	
TOTAL		51.43	

Station	Obser – vation date	Amount since last obs.	Snow on ground
ISLAND OF MAUI (CONTINUED)			
	1970		
KUKUI	JAN 31	28.00	
	FEB 28	20.00	
	MAR 31	29.00	
	MAY 9	108.00	
	MAY 30	40.00	
	JUN 27	24.00	
	AUG 1	48.00	
	AUG 29	36.00	
	OCT 3	10.80	
	OCT 31	15.75	
	NOV 30	72.00	
	JAN 2	72.00	
TOTAL		503.55	
	1970		
MOKUPEA 475	FEB 2	11.69	
	MAR 2	2.58	
	MAR 31	4.39	
	APR 30	11.75	
	MAY 29	4.65	
	JUN 30	5.63	
	JUL 31	8.85	
	AUG 31	9.31	
	SEP 30	3.66	
	OCT 31	4.63	
	NOV 30	23.06	
	DEC 31	11.71	
TOTAL		101.91	
	1970		
PUU PAKI 352	MAR 31	31.00	
	JUN 30	58.00	
	SEP 30	49.00	
	DEC 30	43.00	
TOTAL		181.00	
	1970		
WAILUA IKI 348	MAR 31	32.67	
	JUN 30	84.00	
	SEP 30	86.00	
	DEC 29	94.00	
TOTAL		296.67	

DAILY PRECIPITATION

Station		Total	Day of Month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • •																																	
APRIL 1969																																	
MAKAHA PUMP 800.2	A	.13	.10	.01				.02																									.
• • •																																	
MAY 1969																																	
MAKAHA PUMP 800.2	A	1.55		.76					.34			.01		.05		.02	.03															.34	.
• • •																																	
JUNE 1969																																	
MAKAHA PUMP 800.2	A	1.76											.19					.47	.07					.09			.86			.08			.
• • •																																	
JULY 1969																																	
MAKAHA PUMP 800.2	A	.45																			.05						.05	.35					.
• • •																																	
AUGUST 1969																																	
MAKAHA PUMP 800.2	A	.00																															.
• • •																																	
SEPTEMBER 1969																																	
MAKAHA PUMP 800.2	A	.81											.42				.03							.36									.
• • •																																	
OCTOBER 1969																																	
MAKAHA PUMP 800.2	A	2.17			.14										.88								.36							.79			.
• • •																																	
NOVEMBER 1969																																	
MAKAHA PUMP 800.2	A	3.99						.27						.04	.59	.07	2.75									.06		.21					.
• • •																																	
DECEMBER 1969																																	
MAKAHA PUMP 800.2	A	5.65	.07		.08	.23																.11				.15		.06		4.92	.01		.02	.
• • •																																	
JUNE 1970																																	
MOUNT WAIALEALE 1047		31.48		.04			.08	2.48	.94	.67		.32	.79	1.02	1.34	.20	.35	1.34	.47	.24	.83	3.23	3.11	.90	.94	2.60	1.61	1.06	1.38	1.06	2.32	2.16	.
• • •																																	
SEPTEMBER 1970																																	
MAKAHA PUMP 800.2	A	.18	.01								.10		.04	.03																			.
MIDDLE PEN 147.1	A	3.52	•	•	•	•	•	•	•	•	•	•	•	•	•	3.52	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.
MOUNT WAIALEALE 1047		22.70	.69	.20	.08	.39	.59	.91	.39	.51	.75	.35	.08	.28	.04	.51	1.02	.35	.98	3.90	2.40	4.41	2.44	.67	.24	.12		.04	.12		.24		.
• • •																																	
OCTOBER 1970																																	
MAKAHA PUMP 800.2	A	1.98	.08	.32	1.29	.09												.02		.02					.03					.13			.
• • •																																	
NOVEMBER 1970																																	
MAKAHA PUMP 800.2	A	3.75	.05	-	-	-	.01	-	.11	.30	-	-	-	-	-	.12	.10	.06	-	.12	-	.12	.51	.02	.11	.04	6.18	2.28	.51	.90	.31	.40	.
MOUNT WAIALEALE 1047			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				.67	1.34	7.17	.

See reference notes following Station Index

STATION INDEX

STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF KAUAI													
ALEXANDER RESV. 983		0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1114	A	0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
EKW 3 RESERVOIR 1094.1		0465	02	KAWAIHAU	2	22 06	159 22	350				C	LIHUE PLANTATION
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A			GROVE FARM CO LTD
HANALEI TUNNEL 1053	A	1170	01	KAWAIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1070		7A			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A	2227	01	HANALEI	1	22 09	159 34	690				S	MC BRYDE SUG CO LTD
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	8A	8A		C	KANALOHULUHULU R. S.
KAMEHA RESERVOIR 1092	A	3104	01	KAWAIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	1	22 13	159 25	317		6A		C	KILAUEA SUG PLTN CO
KILAUEA FIELD 17 1135	A	4566	01	HANALEI	1	22 11	159 24	415		7A			KILAUEA SUG PLTN CO
KILAUEA POINT 1133		4568	01	HANALEI	1	22 14	159 24	180	8A	8A			U S COAST GUARD
KITANO 1037.1		4650	03	WAIMEA	3	22 02	159 41	2150				C	KEKAHA SUGAR CO
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A			GROVE FARM CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 58	159 29	640		7A			GROVE FARN CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	1	22 11	159 23	737		7A			KILAUEA SUG PLTN CO
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY STA		5560	02	LIHUE	2	22 01	159 23	375		7A		C	HAWAIIAN SUGAR PL ASSN
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	MID	MID	8A	C J	NATL WEATHER SERVICE
MAKAHUENA POINT 940.1		5785	02	KOLOA	2	21 52	159 27	52	8A	8A			U S COAST GUARD
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	11	9A	9A			KEKAHA SUGAR CO LTD
M-N 1001		6097	02	KOLOA	2	21 55	159 28	300				C	GROVE FARN CONRANY
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		MID		S	U S GEO SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	1	22 11	159 20	330		7A			LIHUE PLANTATION CO.
MOUNT WAIALEALE 1047		6565	03	WAIMEA	2	22 04	159 30	5148		MID		S	U. S. GEO. SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE RLTN CO LTD
N WAILUA RIVER 1055	A	6893	02	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115		8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	1	22 13	159 29	295		7A		C	RRINCEVILLE RANCH
PUEMU RIDGE 1040		8205	03	WAINEA	3	22 01	159 42	1660		7A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A			GROVE FARN CO LTD
RESERVOIR 6 1004	A	8573	02	LIHUE	2	21 57	159 27	420		8A			GROVE FARM CO LTD
STABLE CAMP 1055.1		8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO.
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAHIAWA MOUNTAIN 990	A	8949	02	KOLOA	2	21 58	159 31	2100					MC BRYDE SUG CO LTD
WAIAHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	965	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		8A			LIHUE PLTN CO LTD
WAIAWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWAI 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE COPPORATION
CHURCH COLLEGE LAIE		0340	01	KOOLAUPOKO	1	21 39	157 56	20		5P			BIOLOGICAL SCIENCE DEPT
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	50	9A	7A			OAHU SUGAR CONPANY
HALAWA SHAFT 77192		0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220		VAR		C	H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A		U S COAST & GEODETIC
*HONOLULU WSFC 703	R	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C J	NATL WEATHER SERVICE
*HONOLULU SUBSTA 704		1924	02	HONOLULU	2	21 19	157 52	12	MID	MID		C	NATL WEATHER SERVICE
H S P A EXP STA 707		2146	02	HONOLULU	2	21 18	157 50	50		8A			H S P A EXP STATION
KAALAKEI 724.6		2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZARATA
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800					WAIAHOLE WTR CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 41	157 57	25	8A	8A		C	KAHUKU PLTN CO
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777		2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KAMEHAME 724.7		3056	01	OAHU	1	21 19	157 41	1380				C	THE OCEANIC INSTITUTE
KANEOHE MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	225	7A	7A			STATE HOSPITAL
KANEOHE RANCH 838	A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		8A			KANEOHE RANCH CO
KAPAKA MAKAI 905.1		3220	01	KOOLAULOA	1	21 36	157 54	10				C	GEORGE H. SWIFT
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	20		7A			WAIALUA SUGAR CO. INC.
KAWAI IKI INTAKE 880.2	A	3741	05	WAIALUA	5	21 34	157 59	1180					WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833		4766	05	WAHIAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEDG
LUALUALEI 804		5647	04	WAIANAE	4	21 26	158 08	113	7A	7A		C	USN AMMUNITION DEP
LUALUALEI WTR TUNNEL	A	5650	04	WAIANAE	4	21 29	158 08	1500					U S NAVY
LULUKU		5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	MILNOR LOW
LUNALILO HOME 724.2		5675	02	HONOLULU	2	21 17	157 42	40		7A			LUNALILO HOME
MAKAHA KAI 796.1	A	5766	04	WAIANAE	4	21 28	158 13	15		7A			HAROLD ROBERTS
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAPUU POINT 724		5800	02	HONOLULU	2	21 19	157 39	938	8A	8A			U S COAST GUARD
MANANA 754.2		6089	03	OAHU	3	21 25	157 58	240				C	CLARENCE LEE
MANOA 712		6122	02	HONOLULU	2	21 19	157 49	220		8A			MRS.JOHN H.BEAUMONT
MANOA TUNNEL 2 716		6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4025				C	FEDEPAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVOIR 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		VAR			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PALOLO VALLEY 718		7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784		7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PORTLOCK ROAD 724.4		8126	02	HONOLULU	2	21 17	157 43	6		7A			MRS ALFRED FRANCO, JR.
PRI WAHIAWA 820.2	A	8172	05	WAHIAWA	5	21 28	158 01	700	8A	8A		C	PINEAPPLE RESEARCH INST
PUNALUU 884	A	8310	01	KOOLAULOA	1	21 35	157 54	40		8A			KAHUKU PLTN CO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
ST STEPHENS SEM 788		8600	01	KOOLAUPOKO	1	21 22	157 47	488		7A			REV R CULLIMAN
TANTALUS PEAK 780		8730	02	HONOLULU	2	21 20	157 49	2000				C	BOARD OF WATER SUPPLY
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAHIAWA DAM 863	A	8945	05	WAHIAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIAHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIAHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A	9231	04	WAIANAE	4	21 27	158 11	10		7A			ALFRED J. PRATT
WAIANAE MAUKA 803	A	9238	04	WAIANAE	4	21 29	158 09	1575					CAPITAL INVEST CO
WAIAWA 836	A	9261	03	EWA	3	21 28	157 56	800					WAIAHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760					WAIAHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A		C	WAIMANALO EXP FARM
WAIMEA 892	A	9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	9738	03	EWA	3	21 23	158 01	59		8A			OAHU SUGAR CO
WILHELMINA RISE 721		9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	A	3541	01	MOLOKAI	1	21 06	157 01	12		6A			MOLOKAI PANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560				C	MOLOKAI PANCH, LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	DEL MONTE CORPORATION
MAPULEHU 542		6138	01	MOLOKAI	1	21 04	156 48	20		8A		C	H S P A
MAUNALOA 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	DOLE CONPANY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A		C	ALOHA AIRLINES
PUKOO KAI 545.1		8221	01	MOLOKAI	1	21 05	156 48	10				C	MISS MIRIAM DAVIS
PUUOHOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUUOHOKU RANCH
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550				C	MOLOKAI RANCH
ISLAND OF LANAI													
KAMEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650				C	DOLE COMPANY
ISLAND OF LANAI													
KAUMALAPAU HARBOR 658	A	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370					ST. DIV OF FISH & GAME
MAHANA 694	A	5704	01	LAHAINA	1	20 52	156 55	1430					DOLE COMPANY
MALAUEA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150				C	DOLE COMPANY
WAIAKEAKUA 685	A	9021	01	LAHAINA	1	20 47	156 52	2040					DOLE COMPANY
ISLAND OF MAUI													
AUWAHI-252	A	0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELD 46 474		0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI PINEAPPLE CO.
MAELAAU 477		0790	04	LAHAINA	4	20 57	156 36	298				S	MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF HAWAII EXP STA
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	1	20 50	156 19	1850		6A			HALEAKALA RANCH CO
HALEAKALA RS 338		1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEAKALA SUMMIT 338.4		1008	02	MAKAWAO	2	20 43	156 16	996	8A	8A		C	LKHEED SP & MSLE DIV
HALEHAKU 492.2		1016	02	MAKAWAO	1	20 55	156 17	69				C	PHIL SCOTT
HALIIMAILE 423	A	1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485		1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354		1122	01	HANA	1	20 45	155 59	12		8A		C	HARRY HASEGAWA
HANA AIRPORT 355		1125	01	HANA	1	20 48	156 01	61	11A	11A			HAWAIIAN AIRLINES
HANAHULI 281		1148	01	HANA	1	20 41	156 01	325		7A			KOALI RANCH
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	2	20 45	156 13	6930					HALEAKALA NATL PARK RGS
HONOKOHAU 480	A	1882	04	LAHAINA	4	20 58	156 36	870					MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494		1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LAND-RINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	1	20 47	156 14	6280					HALEAKALA RANCH CO
IAO NEEDLE 387.2		2208	03	WAILUKU	3	20 53	156 33	1100				C	STATE DIVISION OF PARKS
KAANAPALI AIRPORT		2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTYS
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	4	20 54	156 38	2000					PIONEER MILL CO LTD
KAHULUI WSO 398	R	2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A	2630	01	MAKAWAO	1	20 51	156 16	2520					E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A	3433	04	LAHAINA	4	20 53	156 38	1585					PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410		3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A	4091	01	HANA	1	20 50	156 10	980					E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	2	20 42	156 27	15	8A	8A		S	A. L. CORELL
KIHEI 311		4489	03	WAILUKU	3	20 47	156 27	90		7A		C	HAWAIIAN COM & SUG CO
KIPAHULU 258		4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH
KUKUI 380		4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI LAND-PINEAPRLE CO
KULA HEIGHTS 323.2		5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267		5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361		5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	4	20 51	156 37	1280		VAR			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372	A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	1	20 53	156 15	1240					E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUREA 475		6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LAND-PINEAPPLE CO
NAKALELE -FLD 60-497	A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-RINEAPPLE CO
OLINDA 332	A	7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			MAUI CO WATER DEPT
OLOWALU 296		7059	04	LAHAINA	4	20 49	156 38	7		7P			PIONEER MILL CO.
OLOWALU GULCH 377	A	7066	04	LAHAINA	4	20 51	156 36	800					PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	1	20 49	156 07	1260		6A		C	E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	2	20 41	156 08	3570					KAUPO RANCH CO.
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A	8336	01	HANA	1	20 50	156 13	2980					E MAUI IRR CO LTD
PUU KUKUI NAKAI 472	A	8444	04	LAHAINA	4	20 55	156 38	2500					PIONEER MILL CO LTD
PUUNENE 396		8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A	8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2		8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	1	20 48	156 15	5230					HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 290		8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	4	20 54	156 40	980		8A			PIONEER NILL CO LTD
WAIEHU CAMP 484	A	9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	1	20 52	156 12	1200					E MAUI IRR CO LTD
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	MAUI COUNTY WTR DEPT
WAIKAPU 390	A	9376	03	WAILUKU	3	20 52	156 31	470		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A	9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386		9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A	9765	02	HANA	2	20 38	156 12	220					HALEAKALA RANCH CO
ISLAND OF HAWAII													
AHUA UMI 75	A	0040	05	N KONA	5	19 38	155 47	5220					GREENWELL RANCH
AWINI 182.1	A	0190	01	N KOHALA	1	20 10	155 43	1870		VAR			KOHALA DITCH CO LTD
CITY OF REFUGE 27.4		0344	04		4	19 25	155 55	15		8A			NAT HISTORICAL PARK
EAST HONOKANE 183.2	A	0450	01	S KOHALA	1	20 07	155 43	4240					KOHALA DITCH CO LTD
HAINA 214		0840	01	HAMAKUA	1	20 06	155 28	460	8A	8A		C	HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2	19 54	155 08	105		7A			PEPEEKEO SUGAR CO.
HALEMAUMAU 52	A	1033	03	KAU	3	19 24	155 17	3648					HAWAII NAT PARK
HALEPIULA 117	A	1060	01	HAMAKUA	1	19 56	155 24	5770					KUKAIAU RANCH CO
HALEPOHAKU 111	A	1065	02	HAMAKUA	2	19 46	155 28	9220					STATE DIV. OF PARKS
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HAWAII NAT PARK
HAWI 168	A	1339	01	N KOHALA	1	20 14	155 50	600		7A		C	KOHALA SUGAR CO
HILO COUNTRY CLUB 86.6		1487	0[illegible]	HAWAII	2	19 41	155 10	1520		VAR		C	HILO COUNTRY CLUB
HILO WSO 87	R	1492	0[illegible]	S HILO	2	19 43	155 04	27	MID	MID	MID	C J	NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04	N KONA	4	19 38	155 55	3220					STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4	19 37	155 59	14		7A			VARIOUS RANCH HANDS
HOLUALOA MAKAI 69.16		1570	04	HAWAII	4	19 38	155 58	1040				C	SID WEINRICH
HONAUNAU 27		1665	04	S KONA	4	19 27	155 53	1089		7A			CHARLES HUA
HONOHINA 137		1701	02	N HILO	2	19 56	155 09	300		7A			PEPEEKEO SUGAR COMPANY
HONOKANE 181.1	A	1864	01	N KOHALA	1	20 09	155 44	800		VAR			KOHALA DITCH CO LTD
HONOMU MAUKA 138		1960	02	S HILO	2	19 51	155 09	1100		7A		C	PEPEEKEO SUGAR CO.
HONUAULA 71	A	2047	04	N KONA	4	19 40	155 53	6250					STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4	19 42	155 52	8190					STATE DIV OF FOPESTRY
HUEHUE 92.1	A	2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAALA IKI 12	A	2249	03	KAU	3	19 08	155 34	1340		7A			HUTCHINSON SUGAR CO
KAAWALOA 29	A	2327	04	N KONA	4	19 30	155 55	1340		8A			CARTAIN COOK COFFEE CO.
KAMIAWAI 3.4		2512	03	KAU	3	19 05	155 46	3700				C	PUSSELL P. SMITH
KAINALIU 73.2		2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAPANA NO 1 67.8		2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA NO 2 5	A	3048	03	KAU	3	19 02	155 40	1375					HAWAIIAN RANCH CO
KAMUELA 192.2		3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03	KAU	3	19 17	155 27	2140		6A			HAWAIIAN RANCH CO. INC.
KAPOHO LANDING 93.5	A	3369	02	PUNA	2	19 30	154 52	290		VAR			BOARD OF WATER SUPRLY
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1	20 05	155 39	1080					HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIWA CAMP 22.1		3925	03	KAU	3	19 14	155 29	1700				C	HAWAIIAN AGRI. COPANY
KEALAKEKUA 26.2		3977	04	S KONA	4	19 30	155 55	1450	8A	8A		C	MISS AMY GREENWELL
KEMENA 181.2	A	4245	01	N KOHALA	1	20 07	155 45	3840					KOHALA DITCH CO LTD
KIOLAKAA A & F 6	A	4625	03	KAU	3	19 04	155 38	1925					STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2	19 44	155 09	1490					MAUNA KEA SUGAR CO.
KOHALA 179.1	A	4670	01	N KOHALA	1	20 14	155 47	309		8A			KOHALA SUGAR CO
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20 13	155 47	960		7A			KOHALA SUGAR CO
KOHALA MISSION 175.1		4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1	20 05	155 38	720					HONOKAA SUGAR CO
KONA (KAILUA) 68.3		4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	STANDARD OIL CO OF CAL
KONA VILLAGE 93.8		4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1	20 02	155 21	840		6A			HAMAKUA MILL CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5	19 35	155 27	8300				C	MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19 35	155 20	5735					ST DEPT OF SOCIAL SER
LALANILO FLD OFF 191.1		5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04	N KONA	4	19 40	155 58	1530		8A			KONA EXPERIMENT STATION
MAHUKA 2	A	6134	03	KAU	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA BEACH 98		6180	04	S KOHALA	1	20 01	155 50	103		8A			MAUNA KEA BEACH HOTEL
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	5	19 32	155 35	11146	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4	19 37	155 58	475		8A			KONA EXPERIMENT STA
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91		6552	02	PUNA	2	19 33	155 07	1930	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03	KAU	3	19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO

STATION INDEX

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE ‡	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES: TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	OBSERVER
ISLAND OF HAWAII												
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA.
HAULU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK
NIULII 179	A 6806	01	N KOHALA	1	20 14	155 45	75		8A			KOHALA SUGAR CO
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MISS C LEONARD
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		7A			PAAUHAU SUGAR CO
PAAULIO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			HAMAKUA MILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	8A	8A			HAWAIIAN AGR CO
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		8A			PUNA SUGAR COMPANY
PAKAD 37	A 7063	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO. INC.
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEEKEO SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		VAR		C	STATE DIVISION OF PARKS
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. RAPP
PUU KIHI 120	A 8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO
PUU LAAU 102.1	A 8452	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME
PUU LEHUA 73	A 8480	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	1	19 55	155 26	6960					KUKAIAU RANCH CO
PUUKOHAU 167	A 8548	05	N KOHALA	1	20 12	155 50	1800		7A			KOHALA DITCH CO LTD
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		8A		C	DON WINTERS
PUU WAAWAA 94.1	A 8559	05	N KONA	5	19 47	155 51	2520		7A		C	DILLINGHAM RANCH INC
SADLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340				C	BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500				C	HAWAIIAN RANCH COMPANY
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCS 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKAMONDULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830		7A		C	KAHUA RANCH
WAIMEA KOHALA	9554	05	S KOHALA	5	20 00	155 40	2665	8A	8A		C	HAWAIIAN AIRLINES

‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-NORTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII "

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees Resultant wind is the vector sum of wind directions and speeds divided by the number of observations

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table; and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

  No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

\+ And also on an earlier date or dates

++ Highest observed one minute windspeed This station is not equipped with an instrument to measure fastest mile data

* Amount included in following measurement, time distribution unknown

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure

V Includes total for previous month

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

\# Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

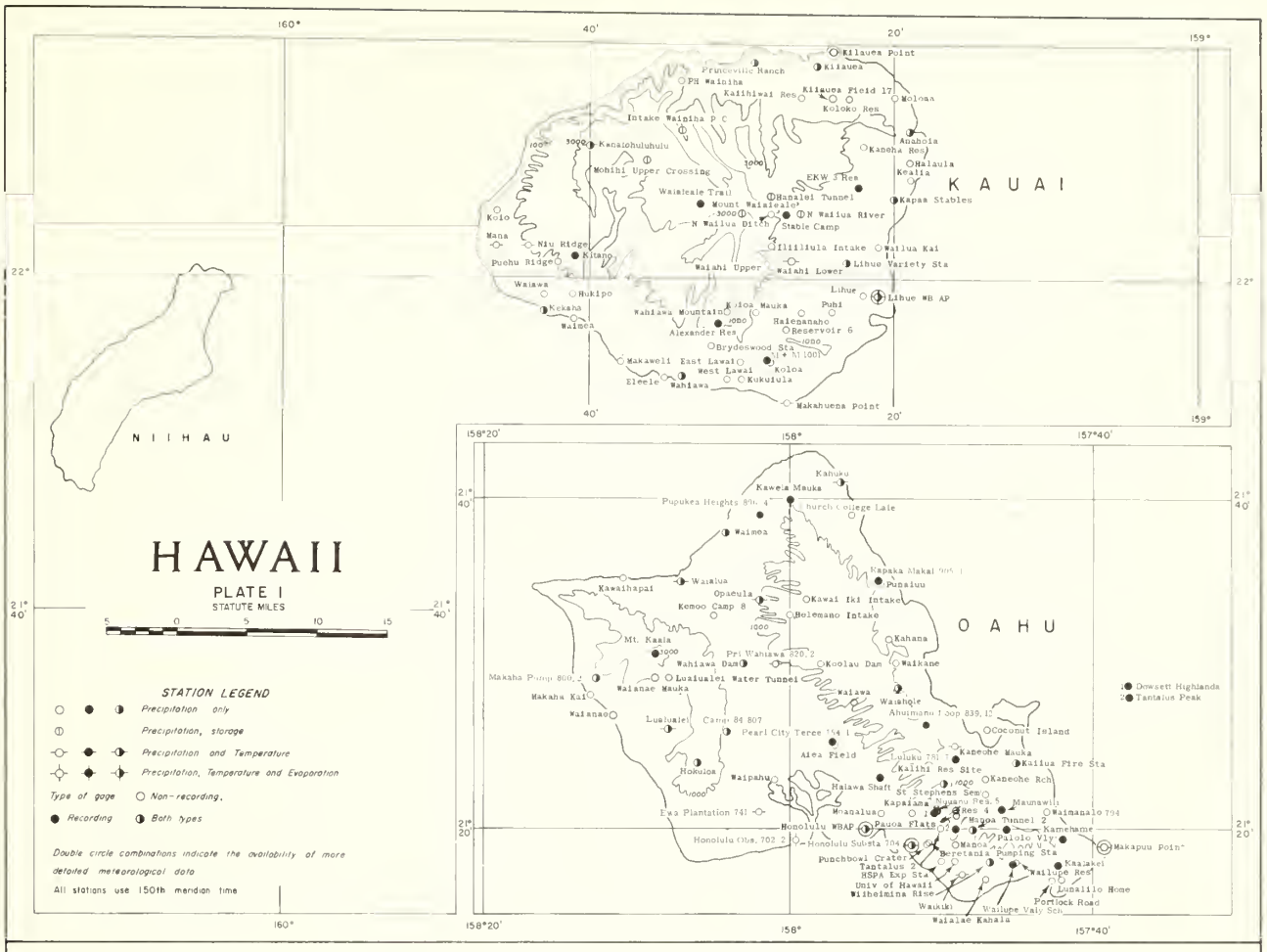
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

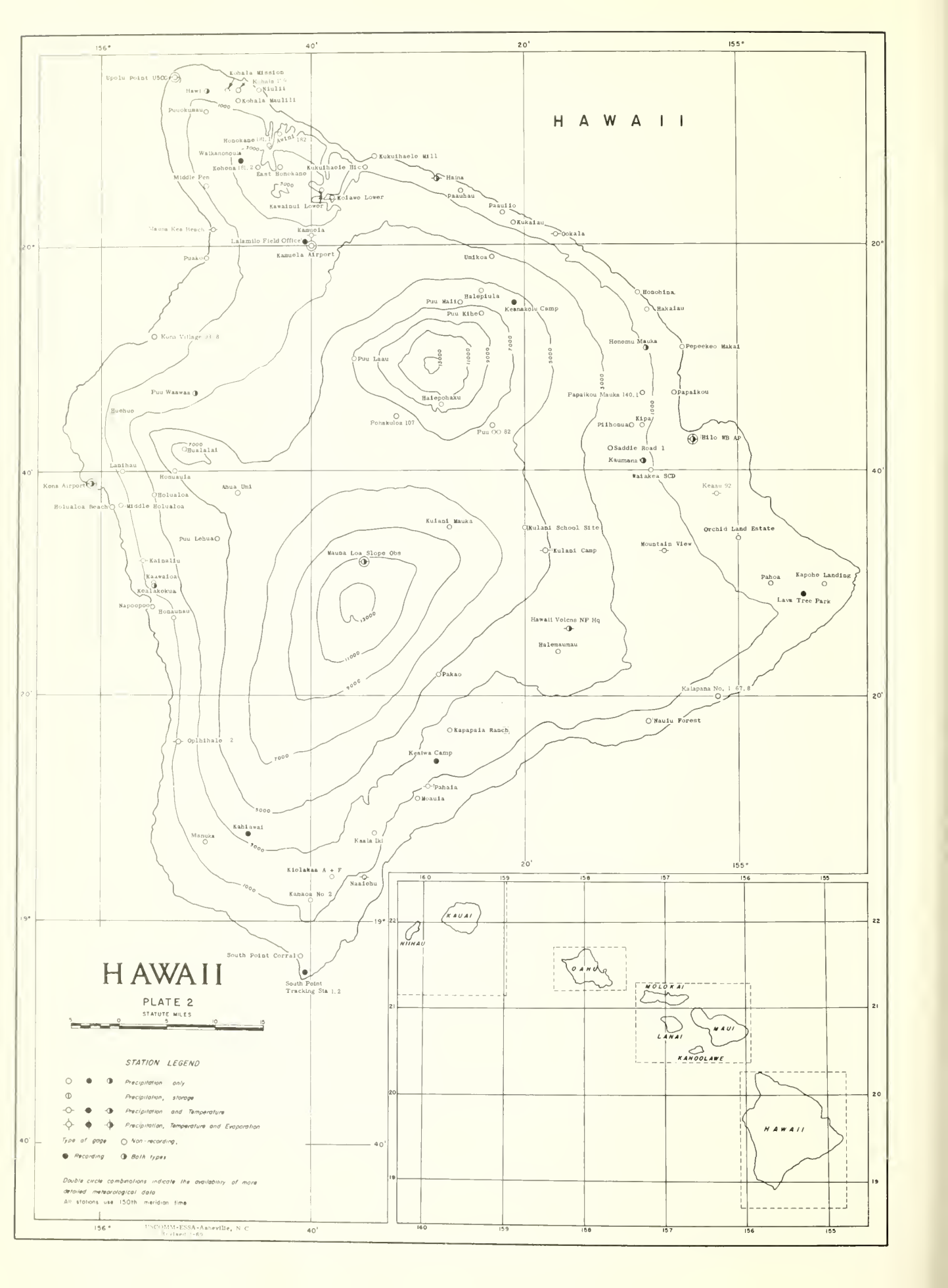
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual, $2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-NOAA-ASHEVILLE-3/31/71-890


HAWAII
PLATE I
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
Kilauea Point
Princeville Ranch
PH Wainiha
Kilauea
Kilauea Field 17
Moloaa
Kalihiwai Res
Koloko Res
Intake Wainiha P C
Kanaiolulululu
Anahola
Kaneha Res
Mohihi Upper Crossing
Halaula
Kealia
EKW 3 Res
Waialeale Trail
Mount Waialeale
Hanalei Tunnel
Kapaa Stables
N Wailua River
N Wailua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Kilauo
Puehu Ridge
Iliilliula Intake
Wailua Kai
Waiahi Upper
Waiahi Lower
Lihue Variety Sta
Waiawa
Hukipo
Lihue
Lihue WB AP
Nekaha
Waimea
Wahiawa Mountain
Koloa Mauka
Puhi
Alexander Res
Halenanaho
Reservoir 6
Brydeswood Sta
Makaweli East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kaweia Mauka
Pupukea Heights 896.4
Church College Late
Waimea
Kawailhapai
Waialua
Opaeula
Kawai Iki Intake
Punaiuu
Kenoo Camp 8
Helemano Intake
Mt. Kaala
Kahana
Pri Wahiawa 820.2
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 800.2
Luaiualei Water Tunnel
Waianae Mauka
Makaha Kai
Waianae
Waiawa
Waiahole
Ahuimanu Loop 839.12
Lualualei
Camp 84 807
Pearl City Teree 154.1
Coconut Island
Aiea Field
Luluku 781.1
Kaneohe Mauka
Kailua Fire Sta
Kailihi Res Site
Hokuloa
Waipahu
Haiawa Shaft
St. Stephens Seep
Kaneohe Rch
Kapaiama Nuuanu Res. 5
Maunawili
Ewa Plantation 741
Moanalua
Res 4
Waimanalo 794
Honolulu WBAP
Pauoa Flats
Nuuanu Tunnel 2
Kamehame
Honolulu Obs. 702.2
Honolulu Substa 704
Manoa
Palolo Vly
Makapuu Point
Punchbowl Crater
Beretania Pumping Sta
Tantalus 2
Kaalakei
HSPA Exp Sta
Wallupe Res
Univ of Hawaii
Wilhelmina Rise
Lunalilo Home
Pertlock Road
Waikiki
Waiupe Vally Sch
Walalae Kahalu
Dowsett Highlands
Tantalus Peak
MOLOKAI
Keomelele Pens
Kalaupapa
Molokai AP
Kualapuu
Maunaloa 511
Kaunakaki Mauka
Kaunakakai
Waikolu
Punohoku Ranch
Mapulehu
Kamalo Mauka
LANAI
Kanepuu 696
Mahana
Lanai City
Lanaihale
Waiakeakua
Kaumalapau Harbor
Malauea 676
MAUI
Nakalele Fld 60
Honolua Fld 49
Honokohua
Field 48
Mokupea 475
Honokohau
Kahakuloa Mauka 482.3
Haelaau
Waihee Valley
Mahinahina
Kaanapali Airport
Waiehu Camp
Puu Kukui Makai
Kahoma Intake
Kahului WB AP
Hamakapoko
Pala
Pauwela
Halehaku 492.7
Wahikuli
Kukui
Iao Needle
Wailuku
Spreckelsville
Kailua
Lahaina
Kauaula Intake
Olowalu
Puunene
Keahua
Lupi Upper
Launiupoko Intake
Waikapu
Halimaile
Waikamoi
Launiupoko Village
Olowalu Gulch
Haleakala B E S
Kailiili
Haleakala Ranch
Keanae
Puohokamoa 2
Waikamoi Dam
Paakea
Pohakea Bridge
Ukulele
Olinda
Waiiua Iki
Hana AP
Ukumehame
Kula Heights
Puu Paki
Kihei
Honomanu Gulch
Twin Gates
Haleakala RS
Hoiua Cabin 259.5
Hana
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Polipoli Spr
Kaupo Ranch House
Hanahuli
Ulupalakua Ranch
Kipahulu
Auwahi
Waiopai Rch
KAHOOLAWE
USCOMM-ESSA-Asheville, N.C.
Revised 2-69


HAWAII
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Kohala
Niulii
Hawi
Kohala Mauliili
Puuokumau
Honokane
Awini
Walkanonoula
Kohona
East Honokane
Middle Pen
Kukuihaele Mill
Kukuihaele
Haina
Paauhau
Paauilo
Kukaiau
Ookala
Kawainui Lower
Kolaeo Lower
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Hakalau
Halepiula
Puu Mali
Puu Kihe
Keanakolu Camp
Kona Village
Puu Laau
Honomu Mauka
Pepeekeo Makai
Puu Waawaa
Huehue
Halepohaku
Papaikou Mauka
Papaikou
Pohakuloa
Puu OO
Pihonua
Kipa
Hilo WB AP
Saddle Road 1
Kaumana
Waiakea SCD
Hualalai
Lanihau
Honuaula
Kona Airport
Holualoa
Holualoa Beach
Middle Holualoa
Ahua Umi
Keaau
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Kulani Camp
Mountain View
Mauna Loa Slope Obs
Kainaliu
Kaawaloa
Kealakekua
Napoopoo
Honaunau
Pahoa
Kapoho Landing
Lava Tree Park
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1
Nauiu Forest
Kapapaia Ranch
Opihihale
Kealwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kaala Ikl
Kiolakaa A + F
Naalehu
Kaiaoa No 2
South Point Corral
South Point
Tracking Sta 1,2
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII

U.S. DEPARTMENT OF COMMERCE PUBLICATION

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
ANNUAL SUMMARY 1970
Volume 66 No. 13

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AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
* * * ISLAND OF KAUAI																										
KANALOHULUHULU 1075	55.3		53.5		56.5		59.5		61.9		62.0		-		65.0		63.8		62.4		58.4		59.4		-	
KILAUEA POINT 1133	72.4		71.6		71.8		71.7		74.7		74.8		76.7		77.3		78.9		77.8		73.9M		72.7		74.8M	
LIHUE WSO 1020.1	71.6	.7	71.3	.6	74.3	3.3	75.6	3.1	77.2	2.7	78.5	1.9	79.5	1.9	80.8	2.4	79.9	1.8	78.4	1.5	75.4	.9	75.2	3.0	76.5	2.0
MAKAHUENA POINT 940.1	73.1		73.2		75.0		75.3		78.2M		78.0		78.2		78.7M		78.5M		77.5		74.5		74.3M		76.2M	
MANA 1026	69.5	- 1.6	70.2	- .8	71.4	.2	74.1	1.4	75.5	.8	77.2	.5	77.6	- .3	78.3	.0	77.4	- .5	76.8	- .2	74.3	- .4	72.5	.4	74.6	.0
NIU RIDGE 1035	66.5		67.1		68.7		70.9		70.9		71.4		72.9		74.8		73.4		71.5		69.7		69.4		70.6	
WAIAHI LOWER 1054	67.9		66.7		68.8		70.1		72.3		73.5		73.9		75.0		74.0		73.4		70.7		69.9		71.4	
ISLAND	67.3		66.7		68.6		70.2		72.3		73.2		76.9		75.3		74.8		73.8		70.5		69.9		71.6	
* * * ISLAND OF OAHU																										
EWA PLANTATION 741	71.4	.4	69.6	- 1.3	71.6	- .2	74.2	1.1	75.8	.9	77.0M	.2	77.6M	- .1	78.7M	.4	77.0	- .6	76.3	- .3	73.8	- .7	73.0	.6	74.7M	.1
HONOLULU WSFC 703	74.2	1.7	73.3	.9	76.9	4.1	78.3	4.1	80.4	4.5	81.1	3.2	82.2	3.4	83.8	4.4	79.0	- .2	78.5	.3	75.8	- .1	74.7	1.1	78.2	2.3
HONOLULU SUBSTA 704	72.8	.6	71.7	- .2	73.3	1.1	73.6	.4	76.2	1.3	77.0	.2	77.7	.0	78.9	.5	77.9	- .4	77.5	.1	75.1	- .3	73.7	.4	75.5	.4
KAHUKU 912	M		70.0M	- 1.6	M		74.3M	1.1	M		77.2M	.5	77.9M	.2	M		78.1M	- .1	77.3M	.0	M		M			
KANEOHE MAUKA 781	71.2	- .3	70.5	- .7	71.9M	.6	73.0	.5	74.7	.5	76.2	.3	76.4	- .1	77.4	.3	76.8	.0	76.2	.1	73.2	- 1.0	72.8	.7	74.2M	.1
LUALUALEI 804	72.1		71.0		74.3		76.8		78.3		79.4		80.5		81.7		79.7		79.1		76.3		74.8		77.0	
MAKAPUU POINT 724	68.9		67.1		68.3		68.7		71.8		72.2		73.6		74.9		75.3		74.9		71.6		70.3		71.5	
OPAEULA 870	67.5	.7	66.9	.2	68.6	1.8	69.8	1.8	72.3	2.5	72.7	1.1	73.1	.9	74.5	1.5	73.4	.2	72.8	.4	70.2	.0	-		-	
PRI WAHIAWA 820.2	69.1		67.4		70.0		71.5		73.4M		74.9		75.1		76.6		75.5		74.8		71.5		70.8		72.6M	
WAIALUA 847	69.8	- .7	68.6	- 1.6	70.3	.0	72.2	.7	74.5	1.1	75.7	.4	76.3	.1	77.2	.5	76.2	- .1	75.8	.4	73.3M	- .1	71.6	.4	73.5M	.1
WAIKIKI 717.2	73.5M		71.8		74.6		75.8M		M		79.0M		79.4		81.3		79.7M		79.0		76.5		76.2		-	
WAIMANALO EXP FARM	71.6		70.5		72.9		74.2		76.5		77.8		78.2		79.0		78.8		77.7		74.4		73.7		75.4	
ISLAND	71.1		69.9		72.1		73.5		75.3		76.7		77.3		78.5		77.3		76.7		73.8		73.2		74.6	
* * * ISLAND OF MOLOKAI																										
MOLOKAI AP 524	71.2		69.6		72.3		73.4		76.0		76.7		76.9		77.7		77.0M		77.1M		74.4		73.3		74.6M	
ISLAND	71.2		69.6		72.3		73.4		76.0		76.7		76.9		77.7		77.0		77.1		74.4		73.3		74.6	
* * * ISLAND OF LANAI																										
LANAI CITY 672	65.8M	.2	67.5M	2.0	M		67.5M	.5	M		70.4M	.3	71.0M	- .1	72.6	.7	71.6	.1	72.2	1.5	70.3M		68.1M	1.6	-	
ISLAND	65.8		67.5		-		67.5		-		70.4		71.0		72.6		71.6		72.2		70.3		68.1		-	
* * * ISLAND OF MAUI																										
HALEAKALA RS 338	50.2		50.0		50.3		50.8		54.4		57.2		54.9		55.9		52.8		54.0		52.0		49.6		52.7	
HALEAKALA SUMMIT 338.4	M		45.3M		44.5M		42.7M		47.6		52.3M		47.2M		M		48.6M		M		M		42.3		-	
HANA AIRPORT 355	71.1M		71.2M		73.0		73.6		75.6M		76.3		76.4M		78.1M		76.6		76.2		74.2		73.2M		74.6M	
KAANAPALI AIRPORT	72.3M		70.9M		72.7M		74.1M		M		M		M		M		77.5		77.5		73.7		73.8M		-	
KAHULUI WSO 398	71.5	- .6	69.7	- 2.0	72.8	.6	75.2	1.8	76.9	1.6	78.3	1.1	79.4	1.1	80.3	1.3	78.0	- .4	78.3	1.0	75.5	.5	73.9	1.2	75.8	.6
KAILUA 446	68.6	.2	67.3	- .8	69.0	.9	69.7	.6	71.2	.8	72.2	.3	72.3	- .4	73.5	.3	72.8	- .5	73.1	.4	71.6	.6	69.3	.4	70.9	.2
KEAWAKAPU BEACH 260.2	72.6		70.3		71.2		73.9		76.1M		76.6		77.2		78.6M		77.4		77.7		75.4		73.3		75.0M	
KULA SANATORIUM 267	61.7	.3	58.1	- 3.0	59.7	- 1.5	61.6	- .4	63.5	.0	63.7	- 1.2	65.8	- .2	67.5	.8	66.2	- .3	66.2	.0	65.2	.8	62.7	.4	63.5	- .4
LAHAINA 361	72.9		71.4		72.9		75.0		76.8		77.0		77.9		79.2		78.4		78.2		75.8		74.3		75.8	
WAILUKU 386	M		70.1M	- 1.2	M		73.5M	.9	75.3M	.9	76.3M	- .1	77.0M	- .4	M		77.2M	- .6	77.1M	.1	M		M		-	
ISLAND	66.9		66.1		67.2		69.2		70.5		71.6		72.0		72.4		72.4		72.6		69.7		68.1		69.9	
* * * ISLAND OF HAWAII																										
HAINA 214	70.7	1.2	69.5	.0	69.7	.2	70.9	.9	72.3	.9	73.6	.6	74.1	.0	74.8	.3	74.9	.4	74.7	.7	72.1	.1	70.1	- .1	72.3	.4
HAWAII VOLCNS NP HQ 54	59.9	1.8	57.4	- .5	57.6	- .3	58.8M	- .3	61.5M	.9	62.0	.0	62.1	- .8	63.1M	- .5	62.7M	- .6	62.5	- .4	61.2	.4	56.9	- 1.8	60.5M	- .2
HILO WSO 87	72.0	1.2	71.1	.5	72.4	.8	73.7	.7	73.7	- .6	74.2	- .7	74.9	- .9	74.8	- .7	75.3	.2	73.9	.7	72.7	1.2	73.3	.2		
KAINALIU 73.2	68.9		67.8		68.3		69.6		70.8		70.9		71.0		72.3		71.6		71.5		70.6		68.8		70.1	
KAMUELA 192.2	62.4		60.0		61.7		64.4M		66.5		66.7		69.3		66.4		66.5		66.5		64.8		61.4		64.4M	
KAMUELA AIRPORT 191	60.7M		57.7M		58.6M		60.4M		63.8		63.8M		62.7		M		64.9		64.8M		-		-		-	
KEAAU 92	72.6	2.3	71.5	1.2	70.8	.5	71.7	.6	73.2	.7	74.0	.3	74.1	- .3	74.4	- .7	73.9	- 1.0	74.0	- .4	72.3	- .3	70.1	- .9	72.7	.1
KEALAKEKUA 26.2	69.6		68.5		68.6		69.6		70.8		71.1		71.4		72.2		72.0		71.8		70.9M		69.4M		70.5M	
KOHALA MISSION 175.1	70.8	1.3	69.3	- .1	69.9	.5	70.7	.4	72.2	.3	73.2	- .2	73.5	- .6	74.2	- .5	74.3	- .3	73.9	- .2	72.1	.1	69.6	- .5	72.0	.0
KONA (KAILUA) 68.3	72.6		70.7M		71.6		73.1M		74.6M		74.8M		M		79.2M		78.2M		78.3M		77.1M		M		-	
KULANI CAMP 79	53.6		51.3		51.9		52.7		55.0		55.5		56.2		58.5		57.3		57.2		56.4		52.5		54.8	
MAUNA LOA SLOPE OBS	41.3		42.1		42.1		39.7		43.9		49.1		46.2		47.1		46.6		45.6		42.1		37.9		43.6	
MOUNTAIN VIEW 91	67.0		66.5		65.5		66.4		68.3		68.4		69.4		69.8		68.7		70.7		68.4		65.2		67.9	
NAALEHU 14	72.1		71.8		71.8		73.1		73.0		73.2		74.5		74.7		74.3		74.2		72.5		71.5		73.1	
OOKALA 223	71.4	.6	69.6	- .6	70.4	.0	71.1	- .1	72.2	- .6	73.3	- 1.0	73.8	- 1.0	74.2	- 1.3	74.4M	- 1.1	74.1	- .9	72.4	- .6	70.0	- 1.1	72.2M	- .7
OPIHIHALE 2 24.1	66.4		65.9		66.1		67.7		70.0		70.4		70.2		72.1		69.8		70.4		68.7		66.0		68.6	
PAHALA 21	70.7	1.7	68.9	.1	69.3	.4	71.0	1.2	71.3	.3	71.1M	- 1.1	M		M		72.2M	- 1.5	72.7M	- .5	M		M		-	
PUAKO 95.1	-		-		-		77.8		78.5		79.2		80.0		80.6		79.6		78.8		76.5		75.4		-	
UPOLU POINT USCG 159.2	74.0		72.7		72.9		73.8		75.7M		76.4		76.5		76.8M		77.1		77.0		75.3		73.1		75.1M	
WAIMEA KOHALA	-		-		-		-		-		-		-		-		-		-		64.0		60.0M		-	
ISLAND	67.1		65.4		65.8		67.9		69.6		70.0		69.5		72.2		71.1		71.1		69.5		66.2		68.8	

Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

A SPECIAL WEATHER SUMMARY DESCRIBING UNUSUAL WEATHER WAS PUBLISHED IN THE AUGUST, NOVEMBER, AND DECEMBER 1970 ISSUES OF THIS BULLETIN.

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

TABLE 2

HAWAII
1970

STATION		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
		PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
• • • ISLAND OF KAUAI																											
ANAHOLA 1114	A	7.86	1.14	1.66-	3.80	.66-	5.55	2.78-	1.33	3.30	.35	1.43-	.22	2.97	.58	1.83-	1.06	1.38-	.75	5.76	.84	14.18	9.42	3.14-	2.26	46.95-	2.64
BRYDESWOOD STA 985	A	5.89-	1.30	.84-	5.32	.63-	5.14	5.29	1.72	5.34	2.02	2.48-	.73	3.78-	.32	1.96-	3.18	3.02-	.50	2.96-	2.10	6.17	.80	10.26	3.06	48.62-	10.99
EAST LAWAI 934	A	9.69	2.87	.87-	5.16	.82-	5.18	7.17	2.81	5.72	1.92	4.09	.34	5.29	.32	3.11-	3.06	4.43	.29	4.76-	.54	8.82	2.94	8.19	1.15	62.96-	1.30
ELEELE 927	A	6.09	1.29	.64-	3.30	.03-	3.30	1.10-	.59	3.38	2.06	1.07	.07	1.74	.48	.28-	1.82	.68-	.76	3.04	.33	2.63-	.32	3.90-	.28	24.58-	6.14
HALAULA 1110	A	8.20	1.29	1.45-	3.90	.60-	5.44	4.52	.60	4.00	1.02	1.77-	.14	3.24	.98	2.39-	.51	1.81-	.48	4.09-	.50	11.00	5.81	2.66-	2.86	45.73-	4.13
HALENANAMO 1006	A	10.35		.92		.83		8.58		5.13		3.23		6.48		5.82		4.83		7.19		12.59		8.21		74.16	
HUKIPO 945		5.09		.93		.38		.15		2.43		.00		.28		.00		.69		1.99		2.07		.11		14.12	
ILILILULA INTAKE 1050	A	16.75		2.57		2.77		16.75		12.81		10.60		12.23		12.26		11.34		11.99		19.90		23.04		153.01	
INTAKE WAINIHA PC 1086	A	23.26		1.46		2.33		30.71		4.91		4.90		9.44		5.68		8.79		4.64		18.11		23.47		137.70	
KALIHIWAI RES 1131	A	12.88		4.44		2.11		9.44		8.46		6.01		9.29		5.67		4.76		5.40		-		-		-	
KANALOHULUHULU 1075		21.63		6.74		.68		4.96		1.89		.36		.58		1.13		2.80		3.48		6.99		5.69		56.93	
KANEHA RESERVOIR 1092	A	13.11		3.95		2.03		10.64		6.79		4.03		6.81		4.88		4.29		6.02		17.35		8.25		88.15	
KAPAA STABLES 1104	A	6.58		1.83		.85		4.23		4.28		1.78		2.85		2.84		1.95		3.61		11.15		3.74		45.69	
KEALIA 1112	A	7.08	1.20	1.08-	3.61	.60-	4.70	3.15-	.21	3.20	1.01	1.37-	.26	2.75	.84	2.33-	.20	1.61-	.49	1.94-	1.86	10.08	5.59	2.84-	1.99	38.03-	4.68
KEKAHA 944		4.39	.71	.80-	2.12	.52-	2.01	.11-	.96	2.00	1.22	.19-	.15	.12-	.26	.08-	.89	.91	.23	2.41	.57	3.22	1.63	.09-	3.20	14.84-	5.23
KILAUEA 1134	A	7.22-	.91	2.83-	3.29	1.30-	6.09	5.00-	.51	5.55	.55	2.70-	.57	6.15	1.71	3.54-	1.45	2.87-	.74	2.95-	2.19	13.37	6.70	5.11-	2.09	58.59-	8.88
KILAUEA FIELD 17 1135	A	10.09-	.04	3.50-	4.68	2.16-	7.72	7.58-	.23	6.51-	1.08	5.20	.15	6.52-	.19	4.09-	3.60	3.54-	1.74	4.29-	2.78	16.22	7.94	7.84-	1.67	77.50-	15.64
KILAUEA POINT 1139		6.22		2.37		1.06		3.21		4.38		1.46		4.83		2.56		1.80		4.60		10.51		3.44		46.44	
KOLO 1033		6.22		1.47		.13		.32		1.18		.00		.32		.00		1.04		1.69		.82		.31		13.50	
KOLOA 936	A	9.50	2.59	.59-	5.65	1.12-	5.51	8.24	3.51	6.52	2.17	3.23-	.46	5.76	.70	3.07-	3.45	4.44	.06	4.11-	1.20	10.89	4.82	7.97	.35	65.44-	2.07
KOLOA MAUKA 994	A	12.23	2.46	1.06-	8.27	1.15-	7.50	9.76	3.10	7.24	1.08	5.17-	.55	7.65	.28	6.54-	2.26	6.79	.41	5.70-	2.24	16.28	8.01	12.26	2.07	91.83-	3.41
KOLOKO RES 1137	A	12.59		3.62		2.27		6.55		6.65		5.52		5.88		4.58		4.39		5.17		16.86		6.90		80.98	
KUKUIULA 935	A	8.69	3.33	.55-	3.92	.38-	3.98	4.23	1.82	3.60	1.69	1.33-	.08	2.98	.92	1.89-	1.35	3.16	.90	3.30-	.07	8.07	4.06	4.04-	1.57	42.22	1.75
LIHUE VARIETY STA	P	8.05		.85		.64		6.99		6.07		2.95		5.24		4.52		3.46		7.19		13.68		5.74		66.38	
LIHUE 1020	A	8.91	2.46	.90-	4.82	.89-	4.63	5.07	1.21	6.31	2.57	1.54-	.75	3.85	1.07	2.17-	1.36	2.04-	.86	5.65	.67	8.06	2.93	3.72-	2.46	49.11-	3.97
LIHUE WSO 1020.1	//R	7.32	1.81	.89-	4.43	.93-	3.63	2.83-	.51	5.85	3.26	.77-	.69	1.76-	.18	1.33-	1.13	1.42-	.66	2.74-	1.29	11.05	6.52	2.29-	2.89	39.18-	3.82
MAKAHUENA POINT 940.1		8.39		.75		.35		2.72		2.38		1.25		3.42		1.07	E	1.17		3.66		4.24		3.38	E	32.78	
MAKAWELI 965	A	5.06	1.17	.76-	2.88	.04-	2.46	.27-	.86	2.82	1.98	.25-	.12	.20-	.41	.04-	1.19	.55-	.33	2.24-	.01	2.87	.70	1.25-	2.15	10.38-	6.58
MANA 1026		6.09	2.03	1.10-	1.71	.42-	2.23	.12-	1.13	1.57	.67	.00-	.64	.54-	.02	.01-	.98	6.03	5.24	1.45-	.60	11.08-	.97	.37-	2.93	18.78-	3.27
MOHIHI UPR CROSS 1083	A	23.14	E	4.90		.75		10.17		1.23		1.53		4.34		1.98	E	2.94	E	5.86	E	14.74	E	5.50	E	77.08	
MOLOAA 1145	A	9.62	2.71	3.38-	2.32	1.10-	5.38	2.51-	1.60	3.23-	.12	1.17-	.54	3.97	1.59	1.70-	1.35	.91-	1.27	3.59-	1.03	12.87	7.86	3.04-	2.17	47.09-	3.62
MOUNT WAIALEALE 1047		24.36		4.11		10.76		48.55		32.17		31.48		30.57		30.74		22.70		-		-		52.28		-	
NIU RIDGE 1035		8.58		1.36		.31		.28		1.83		.05		.94		.15		9.09		2.40		1.20		.46		26.65	
N WAILUA DITCH 1051	A	18.51		2.83		4.11		20.43		15.66		11.67		13.14		12.34		13.59		12.21		22.38		25.26		172.13	
PH WAIHIHA 1115		20.82	10.59	5.78-	5.87	2.00-	12.45	18.36	6.09	6.11-	3.05	4.64-	1.34	13.86	3.78	4.99-	5.66	5.24-	.83	7.14-	1.10	16.11	6.14	16.60	3.01	121.65-	.69
PRINCEVILLE RANCH 1117		8.11-	.22	5.32-	2.06	2.23-	7.35	8.85	2.07	4.71-	1.63	3.46-	1.56	6.86	.69	4.93-	2.39	2.37-	2.45	2.91-	3.39	15.29	7.44	7.57-	1.63	72.61-	12.48
PUEHU RIDGE 1040		8.33		1.82		.03		.50		2.40		.35		.38		.10		3.10		3.34		1.20		.35		21.90	
PUHI 1013	A	8.72		.77		.87		7.11		5.43		2.31		4.79		3.47		3.54		7.14		11.34		5.38		60.87	
RESERVOIR 6 1004	A	9.82	2.38	.90-	6.30	1.08-	5.93	7.42	2.34	5.74	1.26	3.12-	.64	6.47	1.13	5.91-	1.04	5.07	.32	6.00-	.07	15.86	9.11	9.18	1.16	76.57	3.72
WAHIAWA 930	A	6.32	1.29	.56-	3.70	.14-	3.36	2.85	.93	4.20	2.70	1.50	.18	2.20	.51	.67-	1.85	1.57-	.14	2.76-	.26	3.06-	.03	4.15-	.34	29.98-	4.07
WAHIAWA MOUNTAIN 990	A	13.50	.21	1.25-	11.08	2.75-	10.26	19.75	8.51	14.50	3.67	13.50	2.22	12.13-	1.85	12.01-	3.66	9.13-	1.66	7.50-	4.21	18.50	5.70	24.00	9.88	148.52-	2.53
WAIAHI LOWER 1054		10.02		1.32		1.66		13.07		11.13		7.24		8.48		8.15		8.25		8.54		18.81		13.35		110.04	
WAIAHI UPPER 1052		15.05		1.76		2.38		14.14		11.88		9.10		10.87		9.57		9.63		9.28		21.66		17.46		132.78	
WAIAWA 943		4.08	.16	.79-	1.87	.37-	1.96	.02-	1.10	1.74	.90	.04-	.46	.11-	.42	.23-	.86	1.83	1.11	2.34	.39	2.46	.85	.10-	3.18	14.11-	6.44
WAILUA KAI 1065	A	6.25		.95		1.24		3.50		6.11		1.26		2.98		2.30		2.47		5.16		14.73		3.84		50.79	
WAIMEA 947		5.10	1.42	.55-	2.85	.08-	2.28	.12-	1.01	2.43	1.58	.08-	.20	.21-	.26	.00-	1.04	1.02	.36	1.82-	.09	2.93	1.19	.29-	3.06	14.63-	6.24
WEST LAWAI 931	A	7.76	2.26	.53-	4.18	.26-	4.14	4.17	1.65	3.96	1.93	1.81-	.01	2.96	.53	2.11-	1.16	2.83	.36	3.24-	.45	6.06	1.76	4.76-	.54	40.45-	1.99
ISLAND		10.31		2.25		1.14		6.38		5.45		2.84		4.58		3.08		4.01		4.70		10.47		6.75		61.96	61.96
• • • ISLAND OF OAHU																											
AIEA FIELD 625 761	A	3.97-	.89	.53-	4.38	.90-	3.69	4.36	1.54	1.85-	.66	1.24-	.85	4.30	1.46	-		-		-		-		-		-	
BERETANIA PUMPING STA		2.46		.58		.46		2.16		.74		.47		1.93		.70		1.06		2.23		7.02		4.72		24.53	
CAMP 84 807	A	7.57		1.21		.21		.76		1.00		.44		1.91		.35		.70		2.25		6.08		1.89		24.37	
CHURCH COLLEGE LAIE		16.66		2.14		1.08		3.19		6.27		1.75		4.28		2.40		2.41		4.28		8.54		2.99		55.99	
COCONUT ISLAND 840.1		8.14		.95		.51		2.24		1.66		.57		1.55		.66		2.23		4.64		14.21		1.51		38.87	
EWA PLANTATION 741		2.17-	1.62	.52-	2.57	.07-	2.58	.08-	1.09	.20-	.83	.10-	.13	1.11	.63	.02-	.62	.25-	.41	2.80	.87	6.16	3.87	.43-	2.42	13.91-	6.88
HELEMANO INTAKE 881	A	5.69-	2.65	2.24-	7.30	1.37-	7.53	5.82-	.04	2.68-	2.10	3.35-	.97	15.19	10.43	2.68-	2.96	3.59-	.18	3.90-	2.30	10.94	2.24	10.94	2.02	67.01-	11.34
HOKULOA 725.2	A	4.83		1.49		.45		.59		1.81		1.16		2.16		.65		.83		3.03		7.97		1.91		26.88	
HONOLULU OBSERV 702.2		1.02		.71		.10		.06		.12		.04		.82		.03		.21		3.15		3.62		.49		10.37	
HONOLULU WSFC 703	R	1.81-	1.95	.77-	2.53	.07-	2.82	.74-	.57	.21-	.78	.23-	.10	2.01	1.57	.21-	.68	.39-	.60	1.88	.04	5.94	3.78	1.23-	1.76	15.49-	6.40
HONOLULU SUBSTA 704		1.95-	1.91	.57-	2.77	.35-	2.77	1.58	.04	.42-	.58	.30-	.32	1.44	.62	.40-	.81	.83-	.22	1.83-	.30	5.99	3.86	2.69-	.39	18.35-	5.61
H S P A EXP STA 707		2.47-	2.52	.82-	3.60	.70-	3.55	3.60	1.08	1.11-	.99	.85-	.60	2.87	1.01	1.33-	.95	1.21-	.63	2.96-	.06	7.69	4.59	3.97-	.50	29.58-	6.72
KAHANA 883	A	31.12	13.37	3.00-	16.28	8.50-	13.93	24.84	2.78	25.88	4.99E	12.82-	4.13	21.19-	1.83	20.59-	4.10	15.38-	2.66	11.64-	0.15	43.36	25.53	21.08	.15E	239.38-	2.26
KAHUKU 912	A	6.42-	.98	1.40-	3.63	.76-	3.98	2.28-	.57	3.00	1.44	1.43	.02	2.41	.52	1.80-	.86	1.58-	.27	4.59	.43	7.41	3.68	2.74-	1.54	36.16-	3.78
KAILUA FIRE STA 791.3		6.40		.87		.44		5.61		.64		.83		1.82		.54		.85		3.10		12.23		1.20		34.53	
KALIHI RES SITE 777		14.98	5.79	2.54-	6.72	3.38-	6.09	9.14	1.39	9.38	2.21	7.16	2.51	18.02	12.01	5.28-	2.74	5.42-	1.34	7.74	.30	22.05	14.86	8.33-	.29	113.42	21.89
KANEOHE MAUKA 781		12.33	5.03	2.03-	5.19	1.44-	5.82	4.39-	1.14	6.60	2.05	2.10-	.84	5.27	.96	2.80-	1.49	3.49-	.32	5.77	.02	29.66	24.38	4.25-	2.60	80.13	15.04
KANEOHE RANCH 838	A	11.73		1.59		1.12		3.00	E	7.19	E	4.62		4.81		1.88		2.63		6.97		22.85		2.41	E	70.80	
KAPALAMA 773	A	1.59-	4.26	1.10-	5.72	.54-	5.70	5.99	1.86	1.75-	1.89	3.40	.34	3.05-	.37	1.66-	2.27	3.11-	.03	4.19-	.10	12.25	7.83	8.20	1.35	46.83-	8.96
KAWAIMAPAI 841	A	7.96	3.32	2.87-	2.32	.06-	3.82	1.55-	.45	.74-	.63	.32-	.55	2.23	1.40	.55-	1.04	.59-	.21	1.78-	.94	4.53	1.88	1.39-	2.49	24.57-	5.85
KAWAI IKI INTAKE 880.2	A	5.88		16.62		2.20	E	7.23	E	5.77	E	3.79	E	16.21	E	6.41		-		-		8.00		-		-	
KEMOO CAMP 8 855	A	8.90	3.02	3.62-	3.30	.28-	5.04	1.19-	1.53	.62-	1.09	.73-	.39	3.05	1.91	.63-	1.53	1.20-	.13	2.13-	1.11	6.55	2.73	2.99-	2.53	31.89-	8.99
KOOLAU DAM 833	P	9.19	1.40	1.52-	7.52E	3.50-	6.48	14.31	7.36	9.06	2.95	9.61	1.39	18.91	9.13	10.14	1.61E	14.69	8.45E	10.61	2.81	18.37	10.38	22.08	12.08	141.99	43.56
LUALUALEI 804		4.05		1.19	E	.04		.85		.77		.08		.61		.03		.87		1.21		4.50		2.14		16.34	
LUALUALEI WTR TUNNEL	AF	6.85		3.20		.73	E	3.92	E	1.00	E	1.73		1.80		.70		1.55		2.90	E	7.50	E	2.50	E	34.38	
LUNALILO HOME 724.2		3.28		.72		.52		2.15		.78		.31		1.61	E	.20	E	.38		1.21	E	8.21	E	1.29	E	20.66	
MAKAHA KAI 796.1	A	.60-	3.16	.00-	3.12	.00-	2.42	.03-	1.03	.00-	.65	.00-	.33	.56	.30	.01-	.77	.22-	.45	2.51	.26	2.43	.74	.10-	2.63	6.46-	13.26
MAKAHA PUMP 800.2	A	7.45		1.67		.02		1.06		.10		.38		.45		.00		.18		1.98		3.75		.24		17.28	
MAKAPUU POINT 724		5.16	1.57	.82-	2.71	.50-	3.42	4.37	2.59	1.06	.03	.38-	.12	4.29	3.45	2.53	1.51	.73	.02	2.07-	.93	13.37	11.08	1.48-	1.83	36.76	11.24
MANOA 712		4.02-	2.08	.77-	5.03	2.23-	3.58	10.52	6.12	3.97-	.05	6.25	3.26	8.19	4.37E	4.09-	.33E	4.28	1.09	7.38	2.96	14.85	10.28	11.83	5.59	78.38	22.60
MANOA TUNNEL 2 716		9.22-	1.57	2.22-	8.55	5.00-	7.79	17.86	5.15	9.98-	2.87	11.72	2.28	20.94	8.86	11.10-	1.94	7.48-	1.74	12.70	2.20	28.18	17.57	15.62	2.76	52.02	14.36
MOANALUA 770		2.59-	2.05E	1.26-	3.58E	.17-	3.83	3.02	.57	1.03-	.93	.88-	.29	5.12	3.77	.98-	.80	1.50-	.34	4.26	1.24	10.14	7.13	5.17	.36	36.12	1.45
NUUANU RES 4 783		10.94	.13	1.92-	9.13	2.81-	9.20	7.59-	2.42	7.78-	2.05	7.14-	.01	20.28	11.61	7.64-	2.95	5.98-	2.55	9.62	.69	22.54	13.23	11.42	.36	113.66-	2.29
NUUANU RESERVOIR 5 775	A	4.89-	3.07	1.26-	7.42	2.31-	6.09	8.93	2.37	4.95-	1.56	6.25	.41	12.54	6.01	4.46-	3.07	4.43-	.84	7.36	1.03	14.62	8.24	14.55	5.62	86.55	1.63
OPAEULA 870	A	9.10	2.37	2.67-	5.74	1.36-	4.85	5.42	1.26	2.82-	.46	2.28-	.32	11.41	8.11	1.95-	1.96	3.01	.57	4.91	.06	9.12	4.11	7.48	.51	61.53	3.66
PALOLO VALLEY 718		10.56-	.36	2.78-	8.22	5.22-	7.63	14.82	2.31	7.54-	4.58	10.40	1.61	18.80	7.99	8.76-	2.98	6.28-	2.15	11.46	.63	28.38	17.27	10.70-	2.61	135.70	1.28
PAUOA FLATS 784		9.52-	2.98	3.14-	10.13	6.42-	8.41	17.78	4.08	12.98-	.82	16.68	3.89	27.04	12.61	12.58-	4.18	9.62-	2.15	14.12	1.57	26.56	14.22	20.68	6.14	177.12	13.84
PONOLUA RANCH 724.4		4.62		.95	E	.17	E	2.29		.23		.19		2.60		.05		.04		2.70		4.65		.76		19.55	
PRI WAHIAWA 820.2	A	5.95		.90		.40		2.51		1.11		1.01		4.78		.45		1.20		2.16		6.80		4.93		32.17	
PUNALUU 884	A	10.10		2.00		2.17		6.14		9.20		2.50		5.39		3.44		2.27		5.48		19.44		5.68		73.81	
PUNCHBOWL CRATER 709	A	2.84		.81		.67		4.22		1.46		1.01		2.33		1.12		1.34		2.59		7.19		4.55		30.13	
ST STEPHENS SEM 788		10.65		1.68		1.55		4.78		3.69		2.04		5.66		2.66		3.37		7.25		20.91		3.87		68.11	
TANTALUS 2 780.5		4.58		1.71		3.70		14.71		7.38		9.64		16.77		7.53		7.13		9.76		16.47		20.78		120.16	
UNIV OF HAWAII 713	A	3.13-	2.12	.92-	3.74	.90-	3.87	5.20	2.14	1.53-	1.24	1.32-	.32	3.04	.79	1.65-	1.12	1.72-	.31	3.43-	.16	10.51	7.04	4.62-	.29	37.97-	3.20
WAHIAWA DAM 863	A	7.29		1.48		.44		.98		1.52		1.23		3.21		.90		1.27		2.89		6.03		3.74		30.98	
WAIAHOLE 837	A	23.80	11.41	3.26-	9.86	3.53-	11.30	13.46	.16	13.08	.93	5.55-	2.45	12.74	1.80	6.72-	5.11	7.21-	2.58	10.08-	2.00	24.43	12.60	9.07-	5.22	132.93-	11.62
WAILALAE KAHALA 715		2.55		.80		.31		2.15		.69		.25		1.53		.55		.45		3.08		6.62		1.55		20.53	

See Reference Notes Following Station Index

STATION		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
		PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
WAIALUA 847	A	6.60	2.50	E 2.61- 2.20		.12- 3.38		1.69- .03		.45- .65		.14- .58		2.17 1.43		.43- .95		.45- .34		1.54- 1.15		4.00 1.65		1.67- 2.27		21.87- 5.97	
WAIANAE 798.2	A	E .59- 3.20		E .00- 3.13		E .00- 2.31		E .03- 1.09		.10- .51		.06- .29		.88 .50		.10- .74		.45- .32		1.25- .62		2.62 .81		.19- 2.47		E 6.27-13.37	
WAIANAE MAUKA 803	A	4.67- 4.11		3.39- 4.26		.47- 7.39		7.26 2.47		1.81- 2.34		3.22 .10		3.93 .11		1.62- 2.74		2.57- .70		3.46- 1.92		13.08 8.29	E	4.34- 4.70	E	49.82-17.19	
WAIAWA 836	A	8.38- 3.26		2.10-10.84		4.14- 9.70		13.15 1.75		8.63- 3.21		11.49 .65		20.98 7.68		9.16- 5.25		9.70- .27		11.84 .82		23.28 11.18		22.83 7.34		145.68- 3.11	
WAIKANE 885	A	30.27 18.40		2.47-10.75		3.88-11.36		16.66 2.66		12.94 1.08		4.24- 3.74		11.38 .62		8.72- 2.95		7.16- 3.38		8.79- 3.16		37.02 25.86		9.09- 5.15		152.62 8.13	
WAIKIKI 717.2		2.38		.57		.19		.98		.34		.08		.66		.51		.29		2.16		5.20		1.37		14.71	
WAIMANALO EXP FARM		8.65		2.02		.70		7.52		1.17		.50		1.89		1.26		1.02		4.72		21.65		1.06		52.16	
WAIMEA 892	A	7.76 2.38		2.23- 3.67		.52- 4.82		3.72 .47		1.31- 1.35		2.37- .17		10.78 7.79		1.71- 1.73		1.94 .02		2.32- 1.59		5.74 1.57		5.72 .20		46.12- .90	
WAIPAHU 750	A	3.97- .19		.40- 3.29		.15- 3.03		1.33- .55		.20- 1.00		.40- .20		1.96 1.29		.30- .93		.40- .68		2.61 .27		7.62 5.06		1.18- 2.36		20.52- 5.61	
WILHELMINA RISE 721		3.66- .97		.88- 3.14		1.36- 3.16		5.68 2.48		2.06- .38		1.56 .10		4.16 2.30		2.50 .25		1.72 .06		4.00 .72		11.90 8.86		4.00- .28		43.48 6.84	
ISLAND		7.42		1.56		1.26		4.79		3.53		2.39		6.26		2.65		2.75		4.67		12.85		5.02		55.15-69.25	
* * * ISLAND OF MOLOKAI																											
KALAUPAPA 563	A	9.00		3.06		.74		4.91		.86		1.32		3.25		.89		1.29		1.44		18.31		5.06		50.13	
KAUNAKAKAI 536	A	2.44		.15		.00		.00		.00		.00		E .57		.00		.00		.00		4.87		.00		E 8.03	
KEONELELE PENS 551	A	3.07		3.32		.00		.00		.00		.00		.00		.00		.00		.00		8.32		.00		14.71	
KUALAPUU 534	A	6.29 2.15		2.82- .82		.47- 4.09		2.85- .21		.08- 1.50		.39- .28		.87- .01		.68- .54		.32- .46		1.20- 1.22		9.87 6.57		2.44- 1.82		28.08- 2.23	
MAPULEHU 542		4.00 .14		1.08- 3.02		1.52- 2.70		8.01 4.96		2.71 .00		2.47 .28		5.24 2.30		2.57- .33		2.07- .53		4.41 1.00		14.66 11.01		4.38 .17		53.12 13.28	
HAUNALOA 511	A	3.91- .36		2.34- .74		.16- 3.61		1.94- .37		.11- 1.36		.00- .75		1.22- .04		.90- .30		2.07 .96		1.01- 1.36		4.67 1.92		.77- 2.73		19.10- 8.74	
HOLOKAI AP 524		4.40		1.71		.25		2.05		.03		.06		.83		.25		.13		1.16		9.62		1.72		22.21	
PUUOHOKU RANCH 542.1		4.76		1.99		.78		4.13		.97		1.42		3.66		.74		1.05		-		-		-		-	
WAIKOLU 540	A	11.74		6.76		2.55		16.03		2.53		4.31		3.15		.44		5.06		4.65		29.63		11.11		97.96	
ISLAND		4.65		1.99		.60		3.71		.73		.73		2.04		1.10		1.15		1.95		9.66		2.33		30.64-53.26	
* * * ISLAND OF LANAI																											
KANEPUU 690	A	5.10		1.72		.07		.68		2.95		.34		.58		1.55		.02		.62		8.48		.39		22.50	
KAUMALAPAU HARBOR 658	A	3.15		1.67		.00		.38		T		.06		.51		.95		.63		.19		5.69		.30		13.53	
LANAI CITY 672	A	6.06 1.44		1.52- 2.21		.16- 4.17		2.11- .81		.69- 1.98		1.47 .05		1.84 .12		2.09 .31		.37- 1.90		1.78- 1.17		10.73 7.87		.33- 3.39		29.15- 5.84	
LANAIHALE 684	A	7.53		1.97		.49		2.17		1.37		1.95		1.43		3.00		.62		1.00		12.05		.58		34.16	
HAHANA 694	A	5.28		1.13		.00		.48		.72		.14		.16		.65		.01		.35		7.35		.09		16.36	
HALAUEA 676	A	4.95		.99		.00		.33		.23		T		.59		.20		.25		.42		7.23		.02		15.21	
WAIAKEAKUA 685	A	6.41		1.79		.06		1.17		.80		.26		.16		.15		.54		.58		8.71		.45		21.08	
ISLAND		6.06		1.52		.16		2.11		.69		1.47		1.84		2.09		.37		1.78		10.73		.33		29.15-23.94	
* * * ISLAND OF MAUI																											
AUWAHI-252	A	9.07		2.80		.13		1.45		1.07		.45		.07		.30		1.47		1.10		7.32		.30		25.53	
HALEAKALA 8 E S 434	A	11.92 4.52		4.18- 4.94		4.56- 4.65		14.75 6.79		2.14- 2.26		.76- 2.02		4.37 .24		2.18- 2.50		2.95 .65		4.55 .26		13.10 6.86		26.47 16.01		91.93 18.96	
HALEAKALA RANCH 432	A	9.31 3.48		3.95- 2.53		1.27- 4.51		6.51 1.89		.84- 1.00		.00- .90		1.07- .45		.92- 1.25		.49- .83		1.28- 1.39		9.89 6.45		11.30 4.67		46.83 3.63	
HALEAKALA RS 338		14.35		2.13		.61		10.35		3.01		.34		2.64		2.42		.80		2.12		8.66		25.24		72.67	
HALEAKALA SUMMIT 338.4		10.90		E .52		E .06		3.44		E 2.21		E .21		.90		2.92		.56		E 1.03		E 9.70		14.64		47.09	
HALIIMAILE 423	A	6.54		4.10		1.88		5.50		1.15		.88		2.23		.95		1.28		2.19		9.63		7.90		44.23	
HAMAKUAPOKO 485		4.76 .01		2.84- 1.86		1.43- 4.11		7.89 3.00		2.32- .96		1.99- .78		3.74 .28		3.64- .06		3.17 1.03		2.39- 1.08		15.66 11.63		9.05 2.96		58.88 10.04	
HANA 354		10.97		3.83		3.13		7.23		2.60		3.24		6.01		2.22		3.93		4.08		13.63		5.08		65.95	
HANA AIRPORT 355		9.75		3.95		2.21		12.98		3.17		4.24		6.22		3.57		3.98		6.37		16.00		6.40		78.84	
HANAHULI 281		10.44		4.28		3.43		10.17		3.06		4.97		6.30		3.52		2.23		4.13		18.39		4.54		75.46	
HOLUA CABIN 259.5	A	11.89		.92		.40		7.64		.35		.08		1.59		1.79		.35		.99		10.05		6.40		42.45	
HONOKOHAU 480	A	14.36		5.40		5.70		18.70		7.10		10.20		14.30		14.10		6.40		7.50		36.00		16.60		156.36	
HONOKOHUA 493	A	5.34 1.28		1.94- 1.80		1.64- 2.44		4.57 1.39		1.69- .57		1.98 .30		3.79 1.41		2.66 .08		1.73 .05		1.65- 1.03		16.32 13.00		5.35 .70		48.66 12.37	
HONOHANU GULCH 341	A	13.50		4.40		2.00		26.00		4.00		2.00		6.00		5.00		4.00		12.00		17.00		40.00		135.90	
KAANAPALI AIRPORT		5.69		1.54		.14		T 2.76		E .80		E .55		E .86		E .89		.36		.32		8.00		1.63		E 23.54	
KAHOMA INTAKE 374	A	7.00- 2.35		4.40- 5.52		3.76- 7.82		17.53 8.40		2.00- 6.31		2.19- 4.96		2.00- 6.76		1.96- 5.71		2.16- 2.45		2.12- 3.72		5.34- 2.41		14.82 1.64		65.28-37.97	
KAHULUI WSO 398	R	3.49 .35		1.64- .90		.29- 1.93		1.37- .07		.02- .67		.02- .16		.15- .28		.23- .12		.44 .19		.48- .39		8.71 7.19		1.77- .93		18.61 2.28	
KAILILILI 436	A	3.03- 7.79		1.65-11.69		4.41-10.79		8.74- 5.96	E	22.44 12.16		4.14- 2.65		1.65- 7.66	E	7.75- 1.96		4.96- .50	E	5.27- 2.28	E	4.38- 6.36		22.06 4.71	E	90.48-40.77	
KAILUA 446		13.36 4.82		4.46- 6.01		4.29- 7.89		24.64 13.11		8.01- 1.91		7.53- .04		16.69 6.54		11.25- .06		8.21 .71		7.62- 1.70		28.20 18.15		16.68 4.83		150.94 30.55	
KAUAULA INTAKE 375	A	9.89 3.83		2.61- 3.20		.71- 4.44		5.11 1.50		1.92- .85		1.53- .29		1.95- .30		1.23- 1.67		2.06 .33		1.47- 1.59		11.53 8.02		5.65- 1.59		45.66- .25	
KEAHUA 410		4.04 .29		3.33 .20		.66- 2.16		1.55- .43		.49- .30		T - .26		.22- .32		.29- .27		.57 .17		.78- .43		8.68 6.85		3.28- .09		23.89 3.25	
KEANAE 346	A	22.10 6.87		4.00-15.41		11.50-10.66		45.90 20.80		18.40- 2.70		9.40- 4.37		24.20 4.33		22.50 .75		11.30- .93		18.20 2.85		33.50 14.68		30.50 8.18		251.50 24.39	
KEAWAKAPU BEACH 260.2		5.40		1.34		.11		.48		.00		.01		.02		.33		1.17		.05		3.46		.01		12.38	
KIHEI 311		4.20 1.22		2.21 .06		.00- 1.88		.45- .38		.02- .16		.00- .04		.00- .10		.00- .28		.00- .12		T - .81		4.48 3.43		.06- 1.85		11.42- .91	
KIPAHULU 258		10.65 .71		1.91- 7.02		4.32- 5.24		11.01 3.97		3.98- 3.96		5.38- 2.38		7.14- 2.39		6.22- 2.24		4.92- 1.93		4.89- 3.41		11.10 2.00		11.43 .52		82.95-21.37	
KULA HEIGHTS 323.2		8.31		2.63		.00		2.48		.44		.00		.62		.61		.22		1.34		5.29		2.47		24.41	
KULA SANATORIUM 267		10.95 6.33		1.90- 1.98		.03- 3.27		3.14 .45		.48- 1.62		.40- 1.29		1.09- .97		.35- 1.74		3.13 1.16		.35- 1.91		6.90 4.90		.39- 2.64		29.31- 2.58	
LAHAINA 361		3.62 .83		1.24- .85		.00- 1.93		.38- .67		.12- .23		.00- .06		.00- .11		.21- .21		.00- .29		.06- .94		5.27 4.06		1.05- 1.24		11.95- 1.64	
LAUNIUPOKO INTAKE 376	A	6.50 1.34		2.79- 1.97		1.50- 3.51		8.50 4.96		1.10- 1.73		1.90 .06		2.05- .58		3.30- .35		2.00 .47		2.20- .30		10.00 6.08		10.65 4.71		52.49 9.18	
LAUNIUPOKO VILLAGE 372	A	4.62 2.04		2.09 .06		.00- 1.86		.28- .63		.18- .16		.00- .13		.00- .09		.15- .32		.00- .23		.05- .92		6.16 5.03		1.03- 1.35		14.56 1.44	
LUPI UPPER 442	A	14.00 1.52		5.60- 8.59		6.00-11.54		30.30 12.57		9.70- 5.16		8.40- 2.09		17.10 3.12		15.00- .43		8.50- .62		9.90- 2.02	E	30.40 15.71		22.60 5.74	E	177.50 8.21	
MAHINAHINA 466	A	7.52 2.41		2.85- 2.07		2.13- 3.43		7.12 2.66		1.72- 1.15		1.66- .27		2.44- .27		1.93- .84		1.97 .28		1.62- 1.14		9.83 6.14		6.24- .56		47.03 1.76	
NAKALELE -FLO 60-497	A	6.02		1.41		1.53		3.63		1.02		1.01		4.38		1.56		1.52		2.08		12.97		3.49		40.62	
OLINDA 332	A	9.96		3.80		.96		9.81		1.90		1.70		1.73		1.16		.76		2.69		10.18		18.67		62.82	
OLOWALU 296		2.76 .26		1.68 .00		.00- 1.80		.07- .70		.00- .22		.00- .10		.00- .03		.00- .25		.00- .16		.00- .71		5.09 3.95		.19- 1.72		9.79- 1.48	
OLOWALU GULCH 377	A	8.00 1.35		4.00- 2.79		2.00- 5.74		7.60 1.11		4.00- .01		4.40 1.40		2.00- 2.94		2.40- 1.84		1.00- 1.90		1.00- 2.81		10.00 4.93		7.20- 2.23		53.60-11.47	
PAAKEA 350		18.25 2.99		4.21-13.31		8.88-12.92		48.14 27.64		17.41- 1.19		10.93- 1.49		22.11 4.86		19.28 .44		12.37 .07		13.94- .72		37.05 20.28		25.93 6.01		238.50 32.66	
PAIA 406		4.14 .27		2.14- 1.42		.61- 3.44		3.54 .41		.56- 1.55		.39- .80		1.49- .40		1.39- .53		1.72 .44		.78- 1.38		10.88 7.97		4.73 .51		32.37 .08	
PANILEIHULU 259.2	A	35.00		6.30		1.82		11.70		6.35		1.80		2.10		2.56		1.80		7.70		11.40		23.04		111.57	
PAUWELA 490	A	3.93- 2.14		-		-		-		-		-		-		-		-		-		-		-		-	
POHAKEA BRIDGE 307.2	A	4.14		1.62		.10		.29		.07		.00		.00		.04		.00		.21		3.83		.11		10.41	
POLIPOLI SPRINGS 267.2	A	9.80		2.62		.15		3.14		1.05		.97		2.46		2.90		3.20		1.70		4.50		6.00		38.49	
PUOHOKAMOA 2 343	A	21.20 3.16		12.20-11.31	E	15.93-10.77	E	19.47- 9.14		69.40 43.95	E	7.96- 9.30	E	33.64 9.50	E	19.85- 4.58	E	23.95 8.31	E	15.00- 1.89	E	11.60-10.14		54.00 25.45		304.20 33.24	
PUU KUKUI HAKAI 472	A	9.00 .62		3.00- 6.30		2.40- 7.93		20.60 11.87		7.00- .11		5.00- .49		5.00- 2.09		4.00- 3.21		2.80- 1.18		3.00- 1.73		16.60 9.63		20.40 8.85		98.80 7.93	
PUUNENE 396		3.15- .03		2.08- .80		.18- 2.28		1.14- .33		.07- .58		T - .11		.09- .22		.09- .24		.13- .14		.11- .89		5.02 3.48		1.10- 1.53		13.16- 3.67	
SPRECKELSVILLE 400.2		3.31- .22		1.93- 1.20		.52- 2.76		2.35 .22		.09- 1.05		.06- .40		.46- .40		.71- .04		1.01 .42		.54- .85		8.61 6.60		2.85- .30		22.44 .02	
TWIN GATES 261.3	A	7.14		2.51		.00		1.80		.00		.00		.00		.00		2.52		.00		6.06		.00		20.03	
UKULELE 333	A	8.72 1.12		4.15- 4.85		2.00- 6.03		17.00 11.08		2.55- 1.30		1.73- .68		2.80- 1.56		2.35- 3.13		2.90- .53		6.00 .96		10.78 5.18		24.00 15.41		84.98 15.67	
UKUMEHAME 301	A	3.15 .35		1.76- .08		.00- 2.04		.38- .60		.00- .35		.00- .09		.00- .06		.00- .40		.00- .20		.00- .89		3.77 2.51		.29- 1.90		9.35- 3.75	
ULUPALAKUA RANCH 250		8.42		2.44		.66		3.75		.79		1.75		2.46		.63		4.06		.65		6.75		.83		33.19	
WAHIKULI 364	A	3.69 .38		1.48- 1.39		.02- 2.31		.80- .86		.55- .04		.00- .25		.14- .19		.54- .26		.00- .52		.02- 1.13		5.77 4.17		2.85- .24		15.86- 2.64	
WAIEHU CAMP 484	A	9.02 5.11		1.99- 2.31		.76- 3.54		3.47 .20		.26- 1.50		.19- .23		1.54 .56		.69- .52		.91 .04		1.34- .93		15.01 12.28		2.39- 2.56		37.57 6.60	
WAIHEE VALLEY 482	A	11.54 6.42		2.74- 2.07		1.01- 4.75		4.59 .21		.54- 2.19		.29- .62		2.52 .73		1.06- .95		.77- .78		1.98- 1.41		18.72 14.70		3.80- 2.18		49.56 7.11	
WAIKAMOI 449	A	15.80 3.33		5.10-10.46		7.20-11.38		38.60 19.94		13.10- 3.29		9.00- 2.09		18.00 2.71		17.20 .65		9.30- 1.52		11.80- 1.46		38.00 22.99		25.70 8.24		208.80 27.66	
WAIKAMOI OAM 336	A	15.58		5.52		13.93		50.48		9.18		6.52		15.92		13.23		14.01		14.31		25.93		67.11		251.72	
WAIKAPU 390	A	5.34 1.31		1.75- 2.01		.24- 3.30		1.12- 1.42		.32- .79		.00- .20		.09- .46		.12- .65		.08- .34		.24- 1.45		5.67 3.51		.85- 3.09		13.82- 8.89	
WAILUKU 386		5.59 1.80	E	1.78- 2.07	E	.10- 3.65		1.91- .79		.06- 1.20		T - .34		.33- .38		.40- .44		.14- .40	E	.55- 1.31	E	3.95 1.61		1.09- 3.23		15.90-10.48	

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

TABLE 2 CONTINUED

STATION		JANUARY PRECIP	JANUARY DEPARTURE	FEBRUARY PRECIP	FEBRUARY DEPARTURE	MARCH PRECIP	MARCH DEPARTURE	APRIL PRECIP	APRIL DEPARTURE	MAY PRECIP	MAY DEPARTURE	JUNE PRECIP	JUNE DEPARTURE	JULY PRECIP	JULY DEPARTURE	AUGUST PRECIP	AUGUST DEPARTURE	SEPTEMBER PRECIP	SEPTEMBER DEPARTURE	OCTOBER PRECIP	OCTOBER DEPARTURE	NOVEMBER PRECIP	NOVEMBER DEPARTURE	DECEMBER PRECIP	DECEMBER DEPARTURE	ANNUAL PRECIP	ANNUAL DEPARTURE
WAIOPAI RANCH 256	A	6.67	2.70	3.96	.56	.26-	2.74	3.29	1.37	2.18	1.60	.39	.17	.00-	.33	.25-	.69	.25-	.70	3.15	1.51	8.45	6.09	3.73	.36	32.58	9.90
ISLAND		9.30		2.52		2.33		10.56		3.26		2.38		5.31		4.19		3.05		3.69		13.12		10.21		69.92	-53.82
ISLAND OF HAWAII																											
AHUA UHI 75	A	2.10	.03	.30-	1.87	.15-	2.84	2.96	.68	2.00-	.46	.30-	1.42	1.00-	.87	2.00-	.99	.60-	1.02	.60-	1.29	3.02	1.42	2.00	.72	17.03	- 7.91
AWINI 182.1	A	14.48	9.86	6.20-	5.23	10.71-	5.28	16.03-	.90	16.37	3.96	7.34-	.83	9.16-	3.50	24.54	12.23	7.12	.79	5.54-	3.14	15.18	4.97	11.60-	2.29	144.27	4.64
CITY OF REFUGE 27.4		-		-		-		-		-		-		-		-		-		-		2.76		.40		-	
EAST HONOKANE 183.2	A	15.84	2.71	5.86-	7.07	13.50-	5.43	24.00	5.46	14.90	.63	21.70	9.00	24.50	8.24	23.76	7.37	4.86-	3.74	9.00-	.53	22.50	10.52	24.00	5.94	204.42	33.10
HAINA 214		5.00-	.06	7.00	.08	6.02-	2.54	15.11	7.44	9.14	4.22	1.28-	.64	8.08	4.62	13.69	9.05	2.08-	.21	2.95-	2.30	9.43	3.76	16.98	9.28	96.76	32.70
MAKALAU 142		5.61-	5.04	2.41-	11.17	5.35-	9.54	24.56	12.01	21.26	11.41	6.29-	.54	13.51	3.68	20.02	8.24	7.23-	.69	8.22-	3.03	10.87-	1.47	32.79	18.17	158.12	22.03
MALEHAUMAU 52	A	3.62		.79		.68		4.09		6.58		.62		.98		9.09		.68		1.41		7.01		16.96		52.51	
MALEPIULA 117	A	1.93-	1.79	3.44-	2.30	.82-	6.14	9.67	5.60	2.00-	.19	.31-	.72	.50-	1.13	9.38	5.61	1.25-	.39	1.67-	1.84	3.00-	.25	17.50	12.05	51.47	8.51
MALEPOHAKU 111	A	2.99		.26		.07		3.01		3.08		.02		.93		4.48		.93		.22		1.68		6.04		23.71	
HAWAII VOLCNS NP HQ 54		3.40-	8.82	.95-	9.30	3.37-	8.61	15.80	7.40	15.49	9.42	2.94-	1.59	5.91	.79	16.62	9.03	4.57-	.52	5.13-	1.75	9.74-	.44	34.26	24.12	118.18	19.73
HAWI 168	A	8.63	3.93	2.15-	2.19	4.37-	.85	4.86-	.18	4.63	1.07	3.27	.31	6.03	2.10	7.23	3.04	2.11-	.16	2.56-	1.05	7.06	3.04	7.47	1.55	60.37	10.61
HILO COUNTRY CLUB 86.6		-		-		-		-		34.90		9.08		19.86		39.74		9.65		10.33		7.83		57.53		-	
HILO WSO 87	R	2.76-	9.06	2.56-	10.38	6.89-	9.81	28.60	16.68	20.26	10.93	5.60-	1.19	12.27	2.45	20.53	9.08	5.61-	2.89	8.44-	2.36	7.21-	6.16	35.25	20.07	153.98	17.36
HOLUALOA 70	A	7.40	2.89	1.50-	2.81	.00-	6.24	4.10-	3.07	8.20-	1.80	4.00-	5.71	2.00-	6.38	3.30-	4.55	8.04-	.07	7.08	1.21	4.80	.66	9.06	6.60	59.48	-19.27
HOLUALOA BEACH 68	A	2.49	.19	.39-	1.47	.03-	2.44	2.42	.11	1.93-	.72	2.82-	.51	1.53-	1.01	E 4.66	1.80	5.42	2.71	1.26-	1.22	2.89	1.12	.59-	.97	E 26.43	- 2.41
HONAUNAU 27		4.04		1.43		1.39		5.65		5.45		3.55		5.39		5.05		9.25		7.11		8.78		.19		57.28	
HONOHINA 137		4.85-	6.90	3.28-	12.37	6.08-	11.86	27.23	11.74	21.06	8.75	6.53-	1.19	12.24	.27	26.46	12.72	6.64-	2.57	8.07-	4.80	10.86-	2.85	34.13	16.96	167.43	7.88
HONOKANE 181.1	A	15.31	3.76	5.29-	7.24	9.54-	7.54	10.52-	6.13	6.25-	5.14	4.57-	4.43	15.79	3.11	19.28	6.86	5.49-	.22	6.66-	1.85	13.85	3.22	9.58-	6.82	122.13	-22.42
HONOMU MAUKA 138		8.73-	7.33	2.84-	15.48	11.88-	9.24	43.60	24.62	34.96	19.71	11.40	.91	19.88	4.88	43.03	25.38	9.28-	2.45	14.69-	1.02	12.20-	5.39	53.33	31.73	265.82	66.32
HONUAULA 71	A	3.40-	.37	.80-	2.63	.50-	3.60	2.80-	.19	4.80	.17	1.60-	2.50	1.50-	2.57	2.80-	.54	3.06-	.28	3.00	.78	3.20	1.56	4.80	3.25	32.26	- 6.92
HUALALAI 72	A	.54-	1.22	.00-	1.85	.04-	2.01	1.53	.14	2.98	1.12	.70-	.71	.65-	.86	1.27-	.19	.70-	1.05	.64-	.30	.80	.20	.64	.02	10.49	- 6.67
HUEHUE 92.1	A	2.29-	1.84	.51-	2.20	.06-	3.65	6.22-	.79	6.29	1.62	.95-	3.55	2.16-	.34	2.02-	.70	2.07-	1.18	.46-	3.13	2.58-	.35	2.04-	.32	23.65	-16.41
KAALE IKI 12	A	2.92		.87		1.52		5.09		6.30		1.99		1.90		11.25		2.52		4.86		4.49		4.45		48.17	
KAAWALOA 29	A	3.27-	.46	1.91-	1.49	.57-	4.33	3.42-	1.54	1.66-	4.71	3.72-	2.97	4.30-	2.78	5.16-	1.43	4.01-	2.90	2.73-	3.09	4.31	.73	1.25-	1.58	36.31	-26.55
KAINALIU 73.2		3.35-	.61	1.46-	1.93	.98-	4.30	4.30-	1.36	2.05-	5.65	4.71-	3.24	5.68-	2.87	5.67-	2.02	5.68-	1.92	4.24-	1.96	4.04-	.23	1.80-	1.21	43.96	-27.30
KALAPANA NO 1 67.8		1.51		1.68		1.40		10.50		15.87		2.98		7.21		8.21		1.86		3.67		8.53		25.47		88.89	
KAMAOA NO 2 5	A	3.73		.99		.56		3.58		2.35		1.65		3.00		7.03		2.09		3.49		2.90		4.85		36.22	
KAMUELA 192.2		6.36	2.05	.97-	3.25	1.98-	2.29	5.31	1.42	1.90-	.86	1.28-	.50	2.36-	.28	3.72	.64	.38-	.92	1.15-	1.14	3.39	.72	4.73	.04	33.53	- 4.37
KAMUELA AIRPORT 191		4.51		.72		.97		2.56		1.01		.82		1.03		1.91		.11		.69		-		-		-	
KAPAPALA RANCH 36	A	3.76-	5.25	1.52-	6.01	.83-	6.51	3.45-	1.65	6.58	2.57	1.27-	.83	.53-	1.62	9.22	4.84	2.01-	2.08	5.07-	.53	7.01	.78	3.69-	.98	44.94	-17.27
KAPOHO LANDING 93.5	A	4.80		1.96		3.96		11.49		16.33		4.45		13.72		12.22		7.10		7.71		17.16		13.71		114.61	
KAUMANA 88.1		3.55		.80	E	9.98		38.81		-		-		-		-		-		-		-		-		-	
KAWAINUI LOWER 193	A	20.68	7.49	7.21-	7.46	11.87-	8.29	29.82	8.84	26.32	8.76	7.50-	2.97	24.21	8.56	21.61	4.66	11.66	3.93	6.60-	4.63	19.21	7.77	22.52	4.15	209.21	30.81
KEAAU 92		3.10-	9.46	.95-	12.48	5.65-	9.93	24.45	12.03	27.13	17.25	5.94-	1.92	14.38	4.24	23.58	11.83	5.36-	3.69	9.11-	3.27	13.32-	.61	37.43	21.26	170.40	25.25
KEALAKEKUA 26.2		2.93		2.32		.89		3.22		2.69		3.37		4.20		4.25		4.43		3.18		3.88		.90		36.26	
KEHENA 181.2	A	17.98	7.66	4.65-	5.41	8.64-	4.06	16.25	3.63	25.60	16.49	10.55	3.20	15.00	5.45	13.90	4.71	2.82-	2.05	6.00-	.15	18.06	9.77	24.00	11.06	163.45	50.30
KIOLAKAA A & F 6	A	3.20-	4.19	3.14-	4.14	.08-	5.97	3.44-	1.73	11.06	6.02	5.50	.32	4.70-	.78	14.40	7.83	12.60	6.68	13.06	7.81	15.40	8.82	18.00	13.53	104.58	34.20
KIPA 89.2	A	5.08		4.70		11.73		50.04		40.45		12.44		19.99		38.67		10.19		13.21		10.30		61.72		278.52	
KOHALA 179.1	A	6.87	2.10	2.69-	1.79	3.84-	1.98	6.68	.89	6.03	1.79	3.91	.52	7.67	3.12	9.26	4.17	2.36-	.61	2.80-	1.73	7.85	3.30	8.98	2.53	68.94	12.31
KOHALA MAULILI 176	A	8.66	1.73	5.54-	1.42	5.67-	3.11	8.13-	1.36	7.74	1.01	4.52-	.66	10.04	3.22	13.00	6.06	3.57-	.32	4.06-	2.02	9.91	3.47	10.89	1.62	91.73	8.22
KOHALA MISSION 175.1		9.06	3.60	3.13-	2.01	4.50-	2.01	7.10	.32	6.90	2.15	4.48	.80	8.39	3.19	11.85	6.18	2.53-	.41	3.44-	1.12	8.51	3.49	10.81	3.56	80.70	17.74
KOIAWE LOWER 196	A	14.25	5.34	3.90-	6.44	6.93-	5.90	14.49	1.19	16.49	6.19	5.11-	1.55	18.13	8.20	13.72	2.64	6.45	2.12	3.25-	3.74	10.47	3.57	16.08	4.25	129.27	15.87
KONA (KAILUA) 68.3		1.51		.32		.00	E	.39	E	2.32	E	3.18	E	3.15		3.32		3.70		.33		2.10		.38	E	20.70	
KONA VILLAGE 93.8		2.92		.04		.00		.27		.88		.21		.42		.24		1.87		.02		3.03		.38		10.28	
KUKAIAU 222		10.55	2.90	7.48-	4.17	5.66-	8.95	20.88	7.46	14.21	5.60	3.09-	.32	10.65	4.27	24.78	16.64	3.13-	.49	5.15-	2.70	12.49	3.02	30.77	17.55	148.84	40.81
KUKUIMAELE MIC 199		8.31	2.18	4.89-	2.42	6.82-	3.22	13.19	3.96	8.59	1.88	2.68-	.36	10.52	4.98	14.54	8.57	2.06-	.73	2.86-	3.08	10.07	3.31	15.36	6.12	99.87	21.19
KUKUIOLONO HILL 206	A	6.33	1.74	6.28	.54	3.96-	3.56	11.86	5.47	7.84	3.41	2.27	.22	7.08	3.43	11.34	7.10	1.85-	.20	2.40-	2.38	7.80	2.53	12.40	5.23	81.11	23.53
KULANI CAMP 79		1.71		.63		4.90		21.04		19.17		2.09		8.26		17.65		4.74		5.20		10.69		38.37		134.45	
KULANI MAUKA 76	A	.57		.11		.95		7.74		3.98		.31		1.92		8.78		.92		1.51		3.03		20.56		50.38	
KULANI SCHOOL SITE 78	A	1.37		.50		4.34		16.42		16.16		1.91		6.49		17.14		5.41		6.84		5.37		37.60		119.55	
LANIHAU 68.2		4.50		.24		.37		3.00		5.83		3.54		3.89		6.34		7.99		2.52		4.76		2.13		45.11	
MANUKA 2	A	1.73-	2.43	2.81-	1.75	.26-	5.64	4.73-	.83	2.95-	3.77	2.05-	3.46	3.69-	1.33	4.71-	1.39	1.93-	3.92	.79-	3.66	3.00-	.60	4.45	.73	33.10	-28.05
MAUNA KEA BEACH 98		6.54		-		-		-		-		-		-		-		-		-		-		-		-	
MAUNA LOA SLOPE OBS		1.79		.00		.02		1.46		1.51		.02		.16		2.75		.11		.36		3.15		1.87		13.20	
MIOOLE HOLUALOA 68.1	A	2.71		.51		.04		2.38		2.34		2.87		1.79		6.00		6.16		2.14		3.81		.99		31.74	
MIOOLE PEN 147.1	A	5.01		.40		.12		.60		.10		.00		.43		.90		3.52		.30		1.75		1.44		14.57	
MOAULA 18	A	1.72-	6.76	1.09-	5.29	.52-	5.30	7.00	3.63	1.51-	.74	.70-	.67	.61-	.86	6.10	2.95	2.74-	.19	3.17-	1.44	3.75-	1.79	2.10-	2.24	31.01	-18.66
MOUNTAIN VIEW 91		4.64-	10.75	1.90-	13.71	8.82-	11.40	38.63	20.64	32.74	17.70	9.82-	.83	18.32	3.38	33.73	16.82	8.93-	2.67	10.20-	3.71	10.66-	7.03	48.15	29.80	226.54	38.24
NAALEHU 14	A	2.26-	5.71	.32-	5.53	.61-	4.92	3.83	1.13	4.22	2.04	1.14-	.65	.99-	.59	10.46	6.54	1.25-	2.11	3.70-	.18	3.66-	1.55	5.60	1.03	38.04	-10.50
NAPOOPOO 28	A	1.57		.48		.47		1.46		.59		3.17		3.21		3.77		2.69		2.79		2.98		.98		24.16	
NAULU FOREST 38.6		1.92		4.06		1.42		14.15		12.41		2.35		2.56		5.86		2.07		2.39		5.17		17.06		71.42	
NIULII 179	A	6.82	2.12	5.22	.56	4.31-	1.75	7.73	1.73	6.91	2.25	4.11	.82	9.99	5.22	11.19	5.96	2.54-	.64	2.54-	2.03	8.55	3.76	10.03	3.60	79.94	21.60
OOKALA 223		5.00-	3.17	5.87-	5.97	6.05-	8.12	20.55	6.75	15.69	6.41	3.49-	1.11	12.97	5.72	24.40	14.88	4.67-	.49	6.19-	2.25	14.24	3.64	31.24	18.71	150.36	35.01
OPIUMAELE 2 24.1		3.66		1.18		1.58		3.51		2.50		1.90		4.71		1.20		4.15		2.01		5.19		2.03		33.62	
ORCHID LAND EST 91.5	A	2.81		1.26		5.26		19.78		26.40		6.63		15.99		21.03		6.39		8.74		11.81		27.36		153.46	
PAAUHAU 217		4.21-	1.10	6.03-	1.12	5.27-	3.53	12.11	4.07	8.16	2.96	1.12-	.70	7.91	4.24	13.61	9.05	1.61-	.74	3.14-	2.08	9.85	3.98	15.83	7.53	88.85	22.56
PAAUILO 221		10.28	2.39	8.22-	3.40	4.97-	9.25	19.43	6.44	11.42	3.19	2.08-	.89	E 8.55	2.71	19.50	12.43	2.12-	1.19	4.52-	2.74	12.03	3.24	24.42	11.91	127.54	24.84
PAHALA 21		2.20-	5.83	2.45-	4.14	.56-	5.02	3.57	.41	6.95	4.63	1.12-	.21	.34-	1.18	7.68	4.62	3.01	.48	E 2.61-	1.40	E 4.33-	1.11	3.41-	1.02	38.23	- 9.77
PAHOA 65		4.42-	8.63	1.83-	11.30	7.66-	7.55	23.68	12.16	23.68	13.73	7.97-	.10	14.93	4.44	21.11	9.61	9.57	.26	9.72-	2.25	17.38	3.89	39.99	23.92	181.94	36.18
PAKAO 37	A	6.90	.33	1.15-	5.21	2.02-	4.80	12.40	7.07	6.10	1.10	1.90-	.88	1.73-	1.99	4.90-	.89	4.58	.01	7.24	1.56	5.00	.55	6.60	3.25	60.52	.10
PAPAIKOU 144.1		6.06-	5.96	1.92-	11.53	6.83-	8.26	32.04	19.72	29.51	19.61	7.56	.68	14.55	4.32	25.23	13.17	7.89-	.67	10.09-	1.60	7.30-	5.24	43.00	27.33	191.98	51.57
PAPAIKOU MAUKA 140.1		6.22-	10.97	2.42-	16.04	12.61-	9.82	47.38	25.72	35.25	18.06	11.45-	.57	20.35	3.60	39.62	18.00	9.10-	4.41	11.78-	5.31	9.31-	9.14	56.74	34.74	262.43	43.86
PEPEEKEO MAKAI 144		7.09-	3.34	1.67-	10.87	6.70-	7.64	23.15	12.01	20.49	11.57	7.21-	.81	14.51	5.01	19.48	8.73	7.58-	.10	9.46-	1.03	10.44-	1.34	32.47	18.21	160.22	32.02
PIIHONUA 89	A	8.00-	11.64	4.00-	16.26	14.00-	12.35	47.00	23.29	42.00	20.81	16.08	1.66	24.08	4.23	36.80	12.14	17.40	1.11	12.04-	5.70	12.60-	10.26	48.00	24.50	282.00	31.53
POHAKULOA 107	A	2.03		.36		.16		1.82		.41		.03	E	.46		1.30		.68		.00		2.06		1.91		11.22	
PUAKO 95.1	A	3.42		.39		.07		.07		.12		.65		.22		.65		.33		.02		1.91		.14		7.99	
PUU KIHE 120	A	.80-	2.77	2.25-	2.80	.47-	5.55	10.50	7.00	3.05	1.11	.31-	.74	.89-	1.26	9.68	5.23	.93-	.64	1.86-	1.30	3.32	.00	20.00	14.43	54.06	12.71
PUU LAAU 102.1	A	2.82		.82		.48		3.25		4.98		.22		1.34		1.34		.55		.40		3.11		2.05		21.36	
PUU LEHUA 73	A	2.40	.06	1.43-	.88	.40-	2.76	1.86-	.81	2.30-	.92	1.20-	1.35	1.30-	1.33	2.00-	1.36	2.00-	.33	1.30-	.93	2.81	1.10	1.90	.28	20.90	- 9.23
PUU MALI 113	A	1.59		1.38		.14		2.96		1.52		.22		.11		4.51		.98		.65		2.52		6.00		22.36	
PUUOKUMAU 167	A	8.96	3.35	3.83-	1.67	3.99-	3.42	7.23	.47	5.46	.74	3.24-	.16	9.44	4.59	8.38	3.84	4.03	1.59	3.58-	.34	8.08	3.40	11.09	4.04	77.31	16.43
PUU OO 82		1.90		1.35		4.35		17.03		12.57		2.44		5.35		14.34		3.80		5.11		5.64		29.54		103.42	
PUU WAAWAA 94.1	A	2.02-	1.21	1.03-	1.54	.42-	2.79	2.31	.01	2.76	.03	.27-	1.85	1.71-	.39	1.70-	.43	.78-	1.55	.63-	2.25	3.37	1.28	.87-	.83	17.87	-11.52
SADDLE ROAD 1 84	A	3.18		.82		6.00		43.81		45.72		9.02		20.13		26.75		13.15		13.06		6.65		58.03		246.32	
SOUTH POINT CORRAL 3	A	1.70		.06		.18		3.19		1.63		.15		.57		4.30		.41		3.21		2.32		2.45		20.17	
UMIKOA 118		7.52	.36	6.10-	4.45	4.99-	7.74	19.26	9.93	5.05-	.01	3.02	1.32	4.93	1.94	12.42	7.36	1.61-	.55	3.70-	1.25	7.52	1.12	32.07	20.58	108.19	28.61
UPOLU POINT USCG 159.2		6.09		1.36		2.36		2.73		2.78		1.84		4.33		4.11		1.22		1.59		4.03		5.58		38.02	
WAIAKEA SCO 88.2		3.67		.69		10.50		36.16		35.99		9.55		14.45		38.49		11.25		8.88		8.49		46.64		224.76	
WAIMEA KOHALA		-		-		-		-		-		-		-		-		-		-		2.28		2.50		-	
ISLAND		3.51		1.96		3.01		11.42		9.73		2.84		5.75		10.94		3.42		3.44		6.06		15.90		77.98	-14.63

Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

See Reference Notes Following Station Index

TEMPERATURE EXTREMES

Station	Highest	Date	Lowest	Date
* * *				
ISLAND OF KAUAI				
KANALOHULUHULU 1075	78	10- 4+	31	1-15
KILAUEA POINT 1133	92	9-28	60	11-26+
LIHUE WSO 1020.1	87	9-17+	56	1-10
MAKAHUENA POINT 940.1	95	5-24	55	1- 9
MANA 1026	92	9- 8	51	2-16
NIU RIDGE 1035	92	8-19	50	1-15
WAIAHI LOWER 1054	86	9-28+	47	1- 9
* * *				
ISLAND OF OAHU				
EWA PLANTATION 741	88	8-31+	51	1-10
HONOLULU WSFC 703	92	8-28+	58	1-10
HONOLULU SUBSTA 704	85	10-13+	59	1-10
KAHUKU 912	88	9-28	52	1-12
KANEOHE MAUKA 781	86	10- 4+	56	1-11+
LUALUALEI 804	91	10- 5+	54	1-12
MAKAPUU POINT 724	84	10- 4	51	3-13+
OPAEULA 870	89	8-30	50	1-11
PRI WAHIAWA 820.2	90	8-31+	47	1-12
WAIALUA 847	90	9-12+	52	2-28+
WAIKIKI 717.2	90	9-29+	55	1-15+
WAIMANALO EXP FARM	88	10- 1	54	1-10
* * *				
ISLAND OF MOLOKAI				
MOLOKAI AP 524	88	10-14	56	2-12
* * *				
ISLAND OF LANAI				
LANAI CITY 672	87	8- 8+		-

Station	Highest	Date	Lowest	Date
* * *				
ISLAND OF MAUI				
HALEAKALA RS 338	75	5-13	33	3-26+
HALEAKALA SUMMIT 338.4	65	8-24+	27	12-28+
HANA AIRPORT 355	87	10- 2+	53	1-11
KAANAPALI AIRPORT	88	11-21	53	11-30
KAHULUI WSO 398	92	10- 3+	50	1-10
KAILUA 446	87	8-31	53	1-10
KEAWAKAPU BEACH 260.2	95	10-22	53	2-16
KULA SANATORIUM 267	80	8-31	43	2- 8
LAHAINA 361	92	8-18	56	2-16
WAILUKU 386	87	10- 2	56	1- 8
* * *				
ISLAND OF HAWAII				
HAINA 214	85	10-19+	57	12-29
HAWAII VOLCNS NP HQ 54	83	6-27	40	3-10
HILO WSO 87	89	10- 1	58	2-14
KAINALIU 73.2	82	10-17+	54	2-26+
KAMUELA 192.2	81	10-14	40	1-10
KAMUELA AIRPORT 191		-		-
KEAAU 92	90	1-14	57	1-11
KEALAKEKUA 26.2	82	11- 6+	56	2-26
KOHALA MISSION 175.1	84	10-14+	58	2-13+
KONA (KAILUA) 68.3	90	11- 2	54	1-11
KULANI CAMP 79	77	9-24+	31	2- 8
MAUNA LOA SLOPE OBS	66	8- 4	23	12-28+
MOUNTAIN VIEW 91	83	10-19+	51	1-12+
NAALEHU 14	85	7-20	58	2- 9+
OOKALA 223	88	2- 4	59	12-28
OPIHIHALE 2 24.1	87	8-10	52	12-31+
PAHALA 21	91	1-15	50	1-11
PUAKO 95.1	92	8-19		-
UPOLU POINT USCG 159.2	89	10-14+	61	8- 2+
WAIMEA KOHALA		-		-

See Reference Notes Following Station Index

Table 4

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII
1970

Station		Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
* * * ISLAND OF KAUAI														
LIHUE WSO 1020.1	EVAP	5.498	8.138	10.15	-	9.978	10.01	10.46	10.638	10.70	8.47	6.088	7.23	-
	WIND	3076	3444	5718	-	4950	5680	5956	6090	5102	4579	-	-	-
	MAX	80.1	79.1	83.0	-	86.9	87.0	86.3	87.6	86.7	84.0	78.5	75.8	-
	MIN	60.3	58.8	62.3	-	66.1	66.7	67.3	67.7	66.1	65.6	62.6	62.8	-
* * * ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	4.178	5.42	7.77	8.60	9.07	9.63	9.338	9.93	8.06	6.578	4.77	5.66	88.98
	WIND	896	758	873	1194	906	853	885	1054	869	880	632	1411	11211
	MAX	83.7	84.1	87.1	88.3	90.5	90.5	91.3	91.5	89.8	86.9	83.0	81.2	87.3
	MIN	62.5	60.3	62.4	64.4	67.1	68.0	67.9	68.7	66.9	66.6	64.3	63.1	65.2

CHANGE IN STATION NAMES

NAME	FORMER NAME	DATE
ISLAND OF KAUAI		
ANAHOLA 1114	ANAHOLA 1111	APRIL 9, 1970
ISLAND OF OAHU		
MAKAHA KAI 796.1	MAKAHA 796	JULY 1, 1970
WAIANAE 798.2	WAIANAE 798	MAY 1, 1970
ISLAND OF MAUI		
WAILUKU 386	WAILUKU 392	JULY 8, 1969
ISLAND OF HAWAII		
KONA (KAILUA) 68.3	KONA AIRPORT 68.3	JULY 13, 1970

RELOCATION AND CHANGES OF EQUIPMENT

ISLAND OF KAUAI		
ANAHOLA 1114	EQUIPMENT MOVED 3,600 FEET SE	APRIL 9, 1970
N. WAILUA DITCH 1051	EQUIPMENT MOVED 60 FEET ENE	MAY 15, 1970
ISLAND OF OAHU		
COCONUT ISLAND 840.1	EQUIPMENT MOVED 900 FEET SSE	MARCH 3, 1970
MAKAHA KAI 796.1	EQUIPMENT MOVED 1,750 FEET NW	JULY 1, 1970
WAIANAE 798.2	EQUIPMENT MOVED 1,000 FEET NNW	MAY 1, 1970
WAIKIKI 717.2	EQUIPMENT RELOCATED 85 FEET WSW	AUGUST 25, 1970
ISLAND OF MAUI		
WAILUKU 386	EQUIPMENT RELOCATED 800 FEET N	JULY 8, 1969
ISLAND OF HAWAII		
KEAAU 92	EQUIPMENT RELOCATED 125 FEET SSW	MAY 1, 1970
KONA (KAILUA) 68.3	EQUIPMENT MOVED 2,400 FEET E	JULY 13, 1970

See Reference Notes Following Station Index

STATION INDEX

Station	Index No.	Division No.	District	Drainage	Latitude	Longitude	Elevation	Years of record: Temp.	Years of record: Precip.	Years of record: Evap.	Month opened	Month closed	Refer to tables
ISLAND OF KAUAI													
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610						C
ANAHOLA 1114 A	0145	01	KAWAIHAU	1	22 08	159 18	180		41				2 C
BRYDESWOOD STA 985 A	0240	02	KOLOA	2	21 56	159 32	720		62				2
EAST LAWAI 934 A	0456	02	KOLOA	2	21 55	159 30	440		70				2
EKW 3 RESERVOIR 1094.1	0465	02	KAWAIHAU	2	22 06	159 22	350						C
ELEELE 927 A	0470	02	KOLOA	2	21 54	159 35	163		71				2
HALAULA 1110 A	0935	01	KAWAIHAU	1	22 07	159 19	253		70				2
HALENANAHO 1006 A	1038	02	LIHUE	2	21 58	159 26	490		40				2
HANALEI TUNNEL 1053 A	1170	01	KAWAIHAU	1	22 05	159 28	1218						S
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		31				2
ILIILIULA INTAKE 1050 A	2222	02	LIHUE	2	22 02	159 28	1070		37				2
INTAKE WAINIHA PC 1086A	2227	01	HANALEI	1	22 09	159 34	690		7				2 S
KALIHIWAI RES 1131 A	2974	01	HANALEI	1	22 11	159 26	380		33			OCT.	2
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	7	17				1 2 C
KANEHA RESERVOIR 1092 A	3104	01	KAWAIHOU	1	22 08	159 23	830		9				2
KAPAA STABLES 1104 A	3159	01	KAWAIHAU	1	22 05	159 20	175		31				2 C
KEALIA 1112 A	3982	01	KAWAIHAU	1	22 06	159 19	9		72				2
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		77				2 C
KILAUEA 1134 A	4561	01	HANALEI	1	22 13	159 25	317		86				2 C
KILAUEA FIELD 17 1135 A	4566	01	HANALEI	1	22 11	159 24	415		41				2
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	20	21				1 2
KITANO 1037.1	4650	03	WAIMEA	3	22 02	159 41	2150						C
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		35				2
KOLOA 936 A	4742	02	KOLOA	2	21 55	159 28	240		85				2
KOLOA MAUKA 994 A	4750	02	KOLOA	2	21 58	159 29	640		67				2
KOLOKO RES 1137 A	4758	01	KAWAIHAU	1	22 11	159 23	737		38				2
KUKUIULA 935 A	4950	02	KOLOA	2	21 54	159 30	100		69				2
LIHUE VARIETY STA	5560	02	LIHUE	2	22 01	159 23	375		9				2 C
LIHUE 1020 A	5575	02	LIHUE	2	21 59	159 22	207		67				2
LIHUE WSO 1020.1 R	5580	02	LIHUE	2	21 59	159 21	103	21	21	17			1 2 4C
MAKAHUENA POINT 940.1	5785	02	KOLOA	2	21 52	159 27	52	14	14				1 2
MAKAWELI 965 A	5864	03	WAIMEA	3	21 55	159 38	140		80				2
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	11	58	67				1 2
M+M 1001	6097	02	KOLOA	2	21 55	159 28	300						C
MOHIHI UPR CROSS 1083 A	6433	01	WAIMEA	3	22 07	159 36	3500		7				2 S
MOLOAA 1145 A	6529	01	KAWAIHAU	1	22 11	159 20	330		45				2
MOUNT WAIALEALE 1047	6565	03	WAIMEA	2	22 04	159 30	5148		24				2 S
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	26	32				1 2
N WAILUA DITCH 1051 A	6888	02	LIHUE	2	22 04	159 28	1110		44				2
N WAILUA RIVER 1055 A	6893	02	KIHUE	2	22 04	159 26	650						S
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		64				2 C
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		62				2 C
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		32				2
PUHI 1013 A	8217	02	LIHUE	2	21 58	159 24	329		36				2
RESERVOIR 6 1004 A	8573	02	LIHUE	2	21 57	159 27	420		58				2
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740						C
WAHIAWA 930 A	8941	02	KOLOA	2	21 54	159 34	215		67				2 C
WAHIAWA MOUNTAIN 990 A	8949	02	KOLOA	2	21 58	159 31	2100		71				2
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	17	42				1 2
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		39				2
WAIAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		77				2
WAILUA KAI 1065 A	9467	02	LIHUE	2	22 02	159 21	50		9				2
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		59				2
WEST LAWAI 931 A	9955	02	KULOA	2	21 54	159 31	210		70				2
ISLAND OF OAHU													
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320						C
AIEA FIELD 625 761 A	0111	02	EWA	3	21 25	157 57	455		63			JUL.	2
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		13				2
CAMP 84 807 A	0300	03	EWA	3	21 26	158 04	760		16				2 C
CHURCH COLLEGE LAIE	0340	01	KOOLAUPOKO	1	21 39	157 56	20		5				2
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		14				2
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565						C
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	50	65	80				1 2
HALAWA SHAFT 77192	0964	02	HONOLULU	2	21 23	157 54	170						C
HELEMANO INTAKE 881 A	1384	05	WAIALUA	5	21 33	158 00	1274		54				2 C
HOKULOA 725.2 A	1540	03	EWA	3	21 24	158 06	2220		7				2 C
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9	9			2 4
*HONOLULU WSFC 703 R	1919	02	HONOLULU	2	21 20	157 55	7	25	25				1 2 C
*HONOLULU SUBSTA 704	1924	02	HONOLULU	2	21 19	157 52	12	65	65				1 2 C
H S P A EXP STA 707	2146	02	HONOLULU	2	21 18	157 50	50		54				2
KAALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10						C
KAHANA 883 A	2462	01	KOOLAULOA	1	21 31	157 54	800		54				2
KAHUKU 912 A	2570	01	KOOLAULOA	1	21 41	157 57	25	62	79				1 2 C
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		13				2 C
KALIHI RES SITE 777	2960	02	HONOLULU	2	21 23	157 50	910		44				2
KAMEHAME 724.7	3056	01	OAHU	1	21 19	157 41	1380				JUL	FEB.	C
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	225	31	43				1 2
KANEOHE RANCH 838 A	3123	01	KOOLAUPOKO	1	21 23	157 47	365		25				2
KAPAKA MAKAI 905.1	3220	01	KOOLAULOA	1	21 36	157 54	10						C
KAPALAMA 773 A	3268	02	HONOLULU	2	21 21	157 52	614		49				2
KAWAIHAPAI 841 A	3734	05	WAIALUA	5	21 35	158 11	20		42				2
KAWAI IKI INTAKE 880.2A	3741	05	WAIALUA	5	21 34	157 59	1180		16				2
KEMOO CAMP 8 855 A	4318	05	WAIALUA	5	21 33	158 05	725		47				2
KOOLAU DAM 833	4766	05	WAHIAWA	5	21 30	157 58	1160		57				2
LUALUALEI 804	5647	04	WAIANAE	4	21 26	158 08	113		35				1 2 C
LUALUALEI WTR TUNNEL A	5650	04	WAIANAE	4	21 29	158 08	1500		17				2
LULUKU	5655	01	KOOLAUPOKO	1	21 24	157 49	240						C
LUNALILO HOME 724.2	5675	02	HONOLULU	2	21 17	157 42	40		15				2
MAKAHA KAI 796.1 A	5766	04	WAIANAE	4	21 28	158 13	15		45				2
MAKAHA PUMP 800.2 A	5782	04	OAHU	4	21 29	158 12	400						2 C
MAKAPUU POINT 724	5800	02	HONOLULU	2	21 19	157 39	538	22	59				1 2
MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240				MAR.		C
MANOA 712	6122	02	HONOLULU	2	21 19	157 49	220		53				2
MANOA TUNNEL 2 716	6130	02	HONOLULU	2	21 20	157 48	650		44				2
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410						C
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		71				2
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025						C
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		67				2
NUUANU RESERVOIR 5 775A	6933	02	HONOLULU	2	21 21	157 50	410		82				2
OPAEULA 870 A	7150	05	WAIALUA	5	21 34	158 02	1060	66	67				1 2 C
PALOLO VALLEY 718	7664	02	HONOLULU	2	21 20	157 46	995		44				2
PAUOA FLATS 784	7810	02	HONOLULU	2	21 21	157 48	1640		44				2
PEARL CITY TERCE 754.1	7933	03	EWA	3	21 25	157 58	240					MAR.	C
PORTLOCK ROAD 724.4	8126	02	HONOLULU	2	21 17	157 43	6		8				2
PRI WAHIAWA 820.2 A	8172	05	WAHIAWA	5	21 28	158 01	700	6	6				1 2 3 C
PUNALUU 884 A	8310	01	KOOLAULOA	1	21 35	157 54	40		24				2
PUNCHBOWL CRATER 709 A	8316	02	HONOLULU	2	21 19	157 51	360		21				2
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900						C
ST STEPHENS SEM 788	8600	01	KOOLAUPOKO	1	21 22	157 47	488		29				2
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000						C
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		8				2
UNIV OF HAWAII 713 A	8815	02	HONOLULU	2	21 18	157 49	79		46				2
WAHIAWA DAM 863 A	8945	05	WAHIAWA	5	21 30	158 03	854		58				2 C
WAIAHOLE 837 A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		55				2 C
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		49				2
WAIALUA 847 A	9195	05	WAIALUA	5	21 35	158 07	32	64	71				1 2 C
WAIANAE 798.2 A	9231	04	WAIANAE	4	21 27	158 11	10		76				2
WAIANAE MAUKA 803 A	9238	04	WAIANAE	4	21 29	158 09	1575		66				2
WAIAWA 836 A	9261	03	EWA	3	21 28	157 56	800		55				2
WAIKANE 885 A	9340	01	KOOLAUPOKO	1	21 30	157 53	760		55				2
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	7	7				1 2 3
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180						C
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO		21 20	157 43	60						1 2 3
WAIMEA 892 A	9593	05	WAIALUA	5	21 38	158 04	330		55				2 C
WAIPAHU 750 A	9738	03	EWA	3	21 23	158 01	59		73				2
WILHELMINA RISE 721	9980	02	HONOLULU	2	21 18	157 47	1100		44				2
ISLAND OF MOLOKAI													
KALAUPAPA 563 A	2896	01	MOLOKAI	1	21 12	156 59	30		7				2
KAMALO MAUKA 542.6	3046	01	MOLOKAI	1	21 04	156 52	60					AUG.	C
KAUNAKAKAI 536 A	3541	01	MOLOKAI	1	21 06	157 01	12		17				2
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70						C
KEONELELE PENS 551 A	4394	01	MOLOKAI	1	21 12	157 12	560		8				2
KUALAPUU 534 A	4778	01	MOLOKAI	1	21 09	157 02	878		72				2 C
MAPULEHU 542	6138	01	MOLOKAI	1	21 04	156 48	20		52				2
MAUNALOA 511 A	6190	01	MOLOKAI	1	21 08	157 13	1070		43				2 C
ISLAND OF MOLOKAI													
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	20	22				1 2
PUKOO KAI 545.1	8221	01	MOLOKAI	1	21 05	156 48	10				AUG.		C
PUUOHOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		9				2 C
WAIKOLU 540 A	9404	01	MOLOKAI	1	21 08	156 55	3550		7				2 C
ISLAND OF LANAI													
KANEPUU 690 A	3130	01	LAHAINA	1	20 52	157 00	1650		17				2 C
KAUMALAPAU HARBOR 658 A	3461	01	LAHAINA	1	20 47	157 00	30		9				2 C
LANAI CITY 672 A	5286	01	LAHAINA	1	20 50	156 55	1620	38	42				1 2
LANAIHALE 684 A	5301	01	LAHAINA	1	20 49	156 53	3370		9				2
MAHANA 694 A	5704	01	LAHAINA	1	20 52	156 55	1430		17				2
MALAUEA 676 A	6012	01	LAHAINA	1	20 46	156 55	1150		9				2 C
WAIAKEAKUA 685 A	9021	01	LAHAINA	1	20 47	156 52	2040		17				2
ISLAND OF MAUI													
AUWAHI-252 A	0175	02	HANA	2	20 37	156 20	2060		9				2
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050						C
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980						S
HALEAKALA B E S 434 A	0995	01	MAKAWAO	1	20 51	156 18	2100		50				2
HALEAKALA RANCH 432 A	0999	01	MAKAWAO	1	20 50	156 19	1850		80				2
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	26	33				1 2
HALEAKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43	156 16	9960	11	11				1 2 C
HALEHAKU 492.2	1016	02	MAKAWAO	1	20 55	156 17	690						C
HALIIMAILE 423 A	1075	01	MAKAWAO	1	20 52	156 21	1070		8				2
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		88				2
HANA 354	1122	01	HANA	1	20 45	155 59	120		9				2 C
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	21	21				1 2
HANAHULI 281	1148	01	HANA	1	20 41	156 01	325		23				2
HOLUA CABIN 259.5 A	1552	02	MAKAWAO	2	20 45	156 13	6930		8				2
HONOKOHAU 480 A	1882	04	LAHAINA	4	20 58	156 36	870		7				2
HONOKOHUA 493 A	1887	04	LAHAINA	4	21 00	156 39	135		44				2
HONOLUA FLO 49 494	1914	04	LAHAINA	4	21 01	156 38	125						S
HONOMANU GULCH 341 A	1935	01	MAKAWAO	1	20 47	156 14	6280		36				2
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1100						C
KAANAPALI AIRPORT	2307	04	LAHAINA		20 56	156 42	8	4	4				1 2 3
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650						C
KAHOMA INTAKE 374 A	2552	04	LAHAINA	4	20 54	156 38	2000		61				2
KAHULUI WSO 398 R	2572	03	WAILUKU	3	20 54	156 26	48	16	16				1 2 C
KAILIILI 436 A	2630	01	MAKAWAO	1	20 51	156 16	2520		47				2
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	59	68				1 2
KAUAULA INTAKE 375 A	3433	04	LAHAINA	4	20 53	156 38	1585		53				2
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020						C
KEAHUA 410	3910	03	MAKAWAU	3	20 52	156 23	480		53				2
KEANAE 346 A	4091	01	HANA	1	20 50	156 10	980		67				2
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	15		8				1 2 S
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		49				2 C
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		71				2
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788						S
KULA HEIGHTS 323.2	5003	02	MAKAWAU	2	20 47	156 19	2520		8				2 C
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	34	54				1 2
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	27	58				1 2 C
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		58				2
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		45				2
LUPI UPPER 442 A	5665	01	MAKAWAO	1	20 53	156 15	1240		74				2
MAHINAHINA 466 A	5715	04	LAHAINA	4	20 57	156 40	715		58				2
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290						S
NAKALELE -FLO 60-497 A	6645	04	LAHAINA	4	21 02	156 36	340		34				2
OLINDA 332 A	7040	01	MAKAWAO	1	20 48	156 17	4127		54				2
OLOWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		8				2
OLOWALU GULCH 377 A	7066	04	LAHAINA	4	20 51	156 36	800		60				2
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		67				2 C
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		67				2
PANILEIHULU 259.2 A	7674	02	HANA	2	20 41	156 08	3570		8				2
PAUWELA 490 A	7857	01	MAKAWAO	1	20 55	156 19	485		54			FEB.	2
POHAKEA BRIDGE 307.2 A	8060	03	WAILUKU	3	20 49	156 31	167		18				2
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		8				2
PUOHOKAMOA 2 343 A	8336	01	HANA	1	20 50	156 13	2980		43				2
PUU KUKUI MAKAI 472 A	8444	04	LAHAINA	4	20 55	156 38	2500		60				2
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		67				2
PUU PAKI 352 A	8553	01	HANA	1	20 46	156 03	2160						S
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		64				2
TWIN GATES 261.3 A	8742	03	MAKAWAO	3	20 46	156 23	1310		8				2
UKULELE 333 A	8744	01	MAKAWAO	1	20 48	156 15	5230		66				2
UKUMEHAME 301 A	8750	04	LAHAINA	4	20 48	156 35	75		42				2
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		17				2 C
WAHIKULI 364 A	8955	04	LAHAINA	4	20 54	156 40	580		51				2
WAIEHU CAMP 484 A	9275	03	WAILUKU	3	20 55	156 31	320		62				2
WAIHEE VALLEY 482 A	9315	04	WAILUKU	4	20 57	156 32	300		55				2
WAIKAMOI 449 A	9332	01	HANA	1	20 52	156 12	1200		65				2
WAIKAMOI DAM 336 A	9335	01	MAKAWAO	1	20 49	156 14	4320		54				2 C
WAIKAPU 390 A	9376	03	WAILUKU	3	20 52	156 31	470		77				2
WAILUA IKI 348 A	9460	01	HANA	1	20 48	156 09	2630						S
WAILUKU 386	9484	03	WAILUKU	3	20 54	156 30	180	60	70				1 2
WAIOPAI RANCH 256 A	9765	02	HANA	2	20 38	156 12	220		73				2
ISLAND OF HAWAII													
AHUA UMI 75 A	0040	05	N KONA	5	19 38	155 47	5220		48				2
AWINI 182.1 A	0190	01	N KOHALA	1	20 10	155 43	1870		66				2
CITY OF REFUGE 27.4	0344	04		4	19 25	155 55	15	1	1		NOV		2
EAST HONOKANE 183.2 A	0450	01	S KOHALA	1	20 07	155 43	4240		46				2
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	460	62	82				1 2 C
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		80				2
HALEMAUMAU 52 A	1033	03	KAU	3	19 24	155 17	3648		39				2
HALEPIULA 117 A	1060	01	HAMAKUA	1	19 56	155 24	5770		57				2
HALEPOHAKU 111 A	1065	02	HAMAKUA	2	19 46	155 28	9220		32				2
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	58	59				1 2 C
HAWI 168 A	1339	01	N KOHALA	1	20 14	155 50	600		72				2 C
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1520		1		APR.		2 C
HILO WSO 87 R	1492	02	S HILO	2	19 43	155 04	27	25	29	16			1 2 4C
HOLUALOA 70 A	1557	04	N KONA	4	19 38	155 55	3220		43				2
HOLUALOA BEACH 68 A	1562	04	N KONA	4	19 37	155 59	14		51				2
HOLUALOA MAKAI 69.16	1570	04	HAWAII	4	19 38	155 58	1040				JUL.		C
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		33				2
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		78				2
HONOKANE 181.1 A	1864	01	N KOHALA	1	20 09	155 44	800		66				2
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		33				2 C
HONUAULA 71 A	2047	04	N KONA	4	19 40	155 53	6250		42				2
HUALALAI 72 A	2151	04	N KONA	4	19 42	155 52	8190		43				2
HUEHUE 92.1 A	2156	04	N KONA	4	19 45	155 59	1960		68				2
KAALA IKI 12 A	2249	03	KAU	3	19 08	155 34	1340		33				2
KAAWALOA 29 A	2327	04	N KONA	4	19 30	155 55	1340		30				2
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700						C
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	36	41				1 2
KALAPANA NO 1 67.8	2894	02	S HILO	2	19 20	155 02	10		5				2
KAMAOA NO 2 5 A	3048	03	KAU	3	19 02	155 40	1375		17				2
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	35	81				1 2
KAMUELA AIRPORT 191	3078	05	S KOHALA	5	20 00	155 40	2665	16	17			OCT.	1 2
KAPAPALA RANCH 36 A	3300	03	KAU	3	19 17	155 27	2140		85				2
KAPOHO LANDING 93.5 A	3369	02	PUNA	2	19 30	154 52	290		9				2
KAUMANA 88.1	3510	02	S HILO	2	19 41	155 09	1123		32			MAY	2 C
KAWAINUI LOWER 193 A	3770	01	HAMAKUA	1	20 05	155 39	1080		61				2
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	9	9				1 2
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700						C
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450	5	56				1 2 C
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280						C
KEHENA 181.2 A	4245	01	N KOHALA	1	20 07	155 45	3840		60				2
KIOLAKAA A & F 6 A	4625	03	KAU	3	19 04	155 38	1925		42				2
KIPA 89.2 A	4632	02	S HILO	2	19 44	155 09	1490		19				2
KOHALA 179.1 A	4670	01	N KOHALA	1	20 14	155 47	309		76				2
KOHALA MAULILI 176 A	4675	01	N KOHALA	1	20 13	155 47	960		64				2
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	64	81				1 2
KOIAWE LOWER 196 A	4685	01	HAMAKUA	1	20 05	155 38	720		61				2
KONA (KAILUA) 68.3	4764	04	N KONA	4	19 39	156 00	30	22	22				1 2 C
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		4				2
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		76				2
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		62				2
KUKUIHAELE MILL 206 A	4938	01	HAMAKUA	1	20 08	155 34	300		81				2
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	12	23				1 2
KULANI MAUKA 76 A	5018	05	N HILO	5	19 35	155 27	8300		20				2 C
KULANI SCHOOL SITE 78 A	5021	02	S HILO	2	19 35	155 20	5735		64				2
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615						C

STATION INDEX

CONTINUED

Station	Index No	Division No.	DISTRICT	Drainage †	Latitude	Longitude	Elevation	Years of record: Temp.	Years of record: Precip.	Years of record: Evap.	Opened or closed during yr.: Month opened	Opened or closed during yr.: Month closed	Refer to tables
ISLAND OF HAWAII													
KIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		29				2
KILAUEA PARK 66.1	5460	2	PUNA	2	19 29	154 54	950						
KOLEKOLE 2 A	6134	03	KAU	3	19 07	155 30	1760		42				2
KONA KAI KEA BEACH 98	6180	04	S KOHALA	1	20 01	155 50	103	5	5				2
KONA - A SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11146	15	16				1 2
KOOLAU 18 A	6477	03	KAU	3	19 11	155 30	600		52				2
KOOLE HOLUALOA 68.1 A	6268	04	N KONA	4	19 37	155 58	475		29				2
KOOLE PEN 147.1 A	6270	01	N KOHALA	1	20 06	155 50	1380		7				2
KOOLAU 18 A	6477	03	KAU	3	19 11	155 30	600		52				2
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	34	71				1 2
NAALEHU 14 A	6588	03	KAU	3	19 04	155 35	673	17	82				1 2
NAPOOPOO 28 A	6697	04	S KONA	4	19 28	155 55	395		31				2
NAUU FOREST 38.6	6731	02	PUNA	2	19 19	155 08	1400		7				2
NIULII 179 A	6806	01	N KOHALA	1	20 14	155 45	75		86				2
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	51	81				1 2
OPIHIKAA 2 34.1	7166	04	S KONA	4	19 16	155 53	1270	14	15				1 2
ORCHID LAND EST 91.5 A	7185	02	PUNA	2	19 34	155 00	445		9				2
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		82				2
PAAULILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		69				2
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	02	80				1 2
PANOA 63	7457	02	PUNA	2	19 30	154 57	670		62				2
PAKAO 37 A	7643	03	KAU	3	19 22	155 28	3000		43				2
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	200		73				2
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		46				2
PEPEEKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		81				2
PIIHONUA 89 A	8051	02	S HILO	2	19 44	155 10	1730		46				2
POHAKULOA 107 A	8063	02	HAMAKUA	2	19 45	155 32	6511		34				2 C
PUAKO 95.1 A	8186	05	KOHALA	5	19 59	155 50	5		9				1 2 3
PUU KIHE 120 A	8393	01	HAMAKUA	1	19 54	155 24	7750		57				2
PUU LAAU 102.1 A	8452	05	HAMAKUA	5	19 50	155 36	7440		39				2
PUU LEHUA 73 A	8460	04	N KONA	4	19 34	155 49	4880		48				2
PUU MALI 113 A	8515	01	HAMAKUA	1	19 55	155 26	6960		39				2
PUUOKUMAU 167 A	8548	06	N KOHALA	1	20 12	155 50	1800		44				2
PUU OO 82	8550	02	S HILO	2	19 44	155 23	6340		61				2 C
PUU WAAWAA 94.1 A	8555	05	N KONA	5	19 47	155 51	2520		68				2 C
SADDLE ROAD 1.84 A	8590	02	S HILO	2	19 42	155 12	2340		23				2
SOUTH POINT CORRAL 3 A	8675	03	KAU	3	18 57	155 41	500		23				2 C
UMIKOA 118	8780	01	HAMAKUA	1	19 59	155 23	3420		78				2
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	13	15				1 2
WAIAKEA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		19				2
WAIKANONULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830						C
WAIMEA KOHALA	9554	05	S KOHALA	5	20 00	155 40	2665	16	17		OCT.		1 2

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1931-1960. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.

+ Also on earlier date (datee) or months.

• Amount included in following measuremont.

A The letter "A" shown following station name, (Table 2 and Station Index) Amounte carried in the monthly "Precipitation" column are for the period from last measursement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a montb are credited to the last day of the preceding month.

B Adjusted to a full month

E Amount is wholly or partially estimatsd.

M One or more days record missing, if average value le entered, less than 10 days record le mieeing. See montbly Climatological Data for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too emall to measuro.

V Includes total for previous month. V in annual column meane total is for a two-year period

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

Thermometers are generally exposed in a shelter located a few feet above sod covered ground, however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a hullding.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purpoees, and are published lator in the "Hourly Precipitation Data" bulletin. If daily amounts are publehed in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts publlshed from the recording gags in the "Bourly Precipitation Data" bulletin.

S Storage precipitation station. Procipitation measurements, made at irregular intervals, will be published in the December issue of Climatological Data

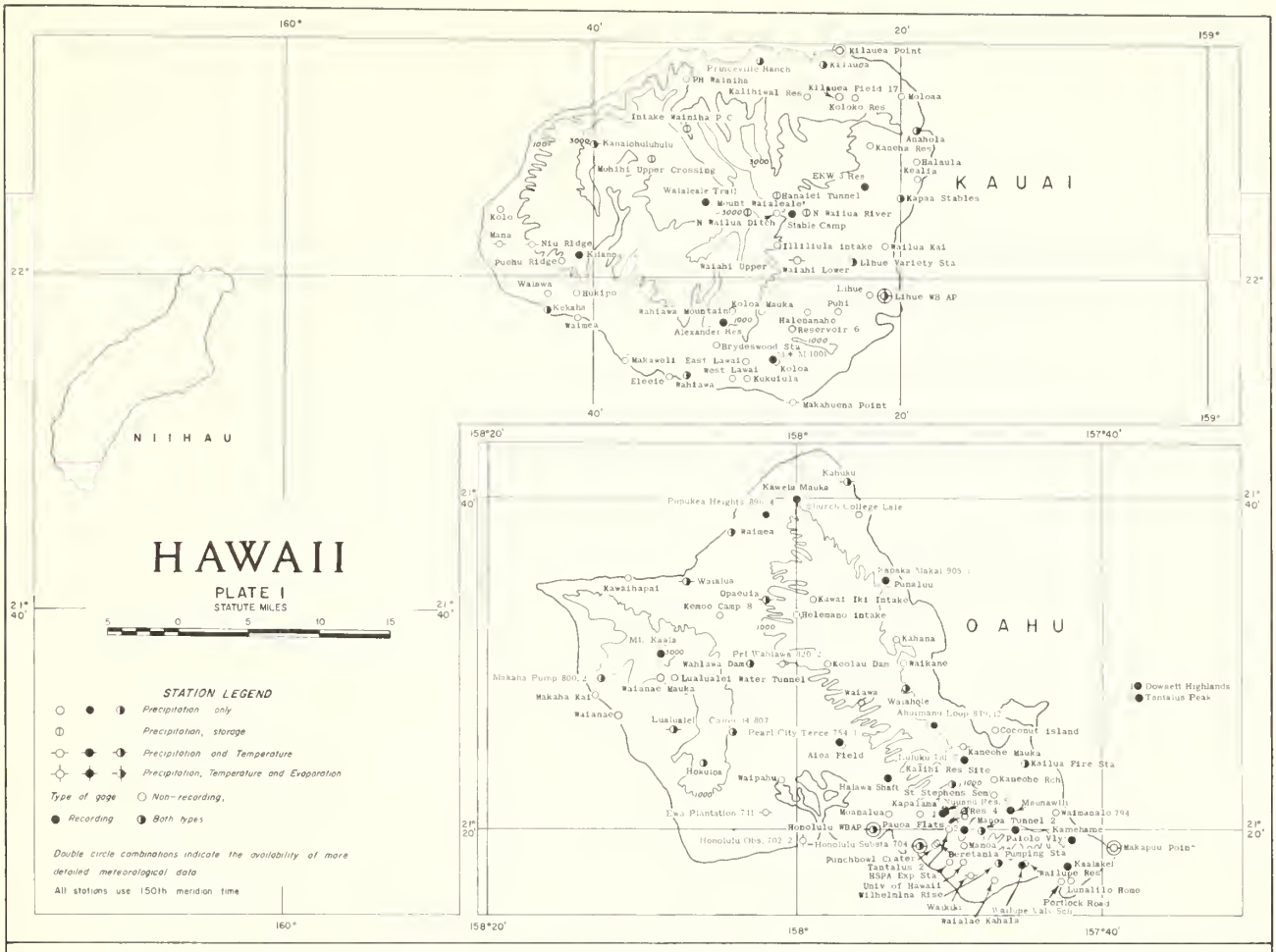
Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.

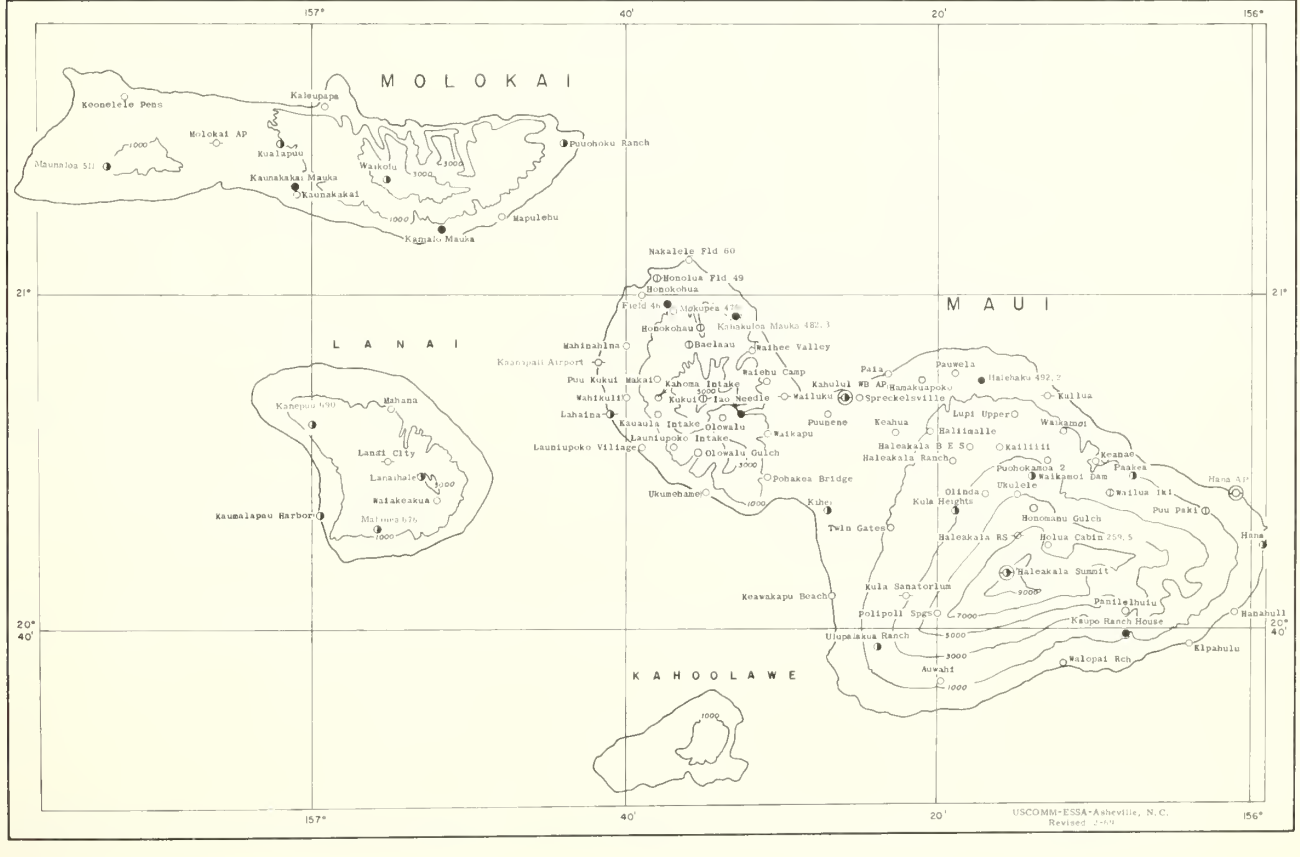
The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

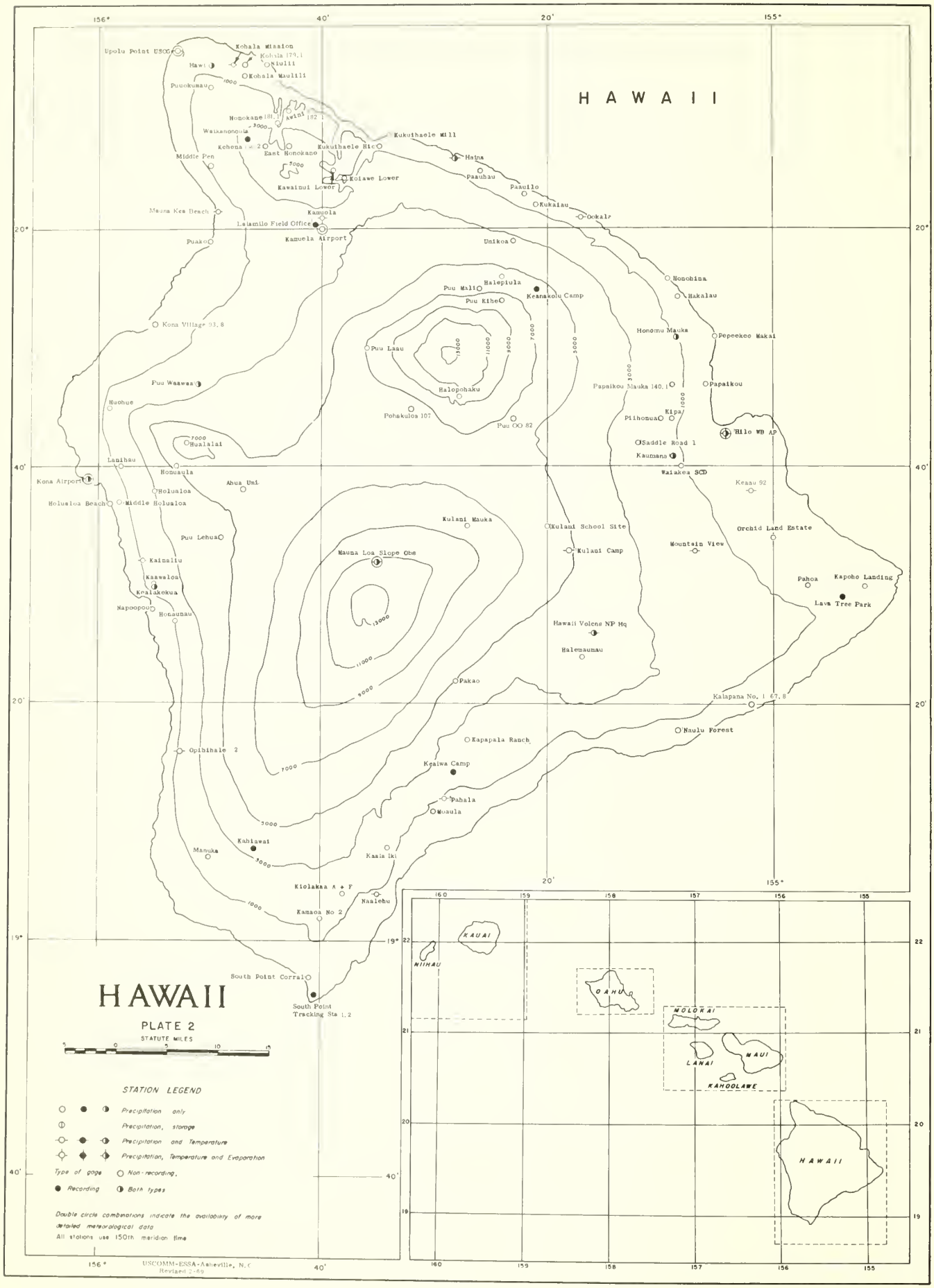
Information concerning the history of changes in location, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, for 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, obtained as indicated above, price 15 cents.

Subscription Price 20 cents per copy, monthly and annual; $2.50 per year (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittances and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-NOAA-ASHEVILLE-5/5/71-990


HAWAII
PLATE I
STATUTE MILES
5 0 5 10 15
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
NIIHAU
KAUAI
OAHU
Kilauea Point
Princeville Ranch
PH Wainiha
Kilauea
Kilauea Field 17
Moloaa
Koloko Res
Intake Wainiha P C
Kanaiohuluhulu
Anahola
Kaneha Res
Halaula
Kealia
Mohihi Upper Crossing
EKW 3 Res
Kapaa Stables
Waialeale Trail
Mount Waialeale
Hanalei Tunnel
N Waiilua River
N Waiilua Ditch
Stable Camp
Kolo
Mana
Niu Ridge
Puchu Ridge
Kilauea
Illiliula intake
Wailua Kai
Waiahi Upper
Waiahi Lower
Lihue Variety Sta
Wainiwa
Hukipo
Lihue
Lihue WB AP
Kekaha
Waimea
Kokee
Waiahiawa Mountain
Koloa Mauka
Puhi
Halenanahe Reservoir 6
Alexander Res
Brydeswood Sta
Makaweli
East Lawai
West Lawai
Koloa
Eleele
Wahiawa
Kukuiula
Makahuena Point
Kahuku
Kawela Mauka
Punahou College Lane
Waimea
Kawailoa
Opaeula
Kawai Iki Intake
Kemoo Camp 8
Helemano intake
Mt. Kaala
Kahana
Wahiawa Dam
Koolau Dam
Waikane
Makaha Pump 800.2
Lualualei Water Tunnel
Waianae Mauka
Waiawa
Waiahole
Makaha Kai
Waianae
Lualualei
Pearl City Terrace 744.1
Coconut Island
Aiea Field
Kaneohe Mauka
Kailua Fire Sta
Hokuloa
Waipahu
Kalihi Res Site
Kaneohe Rch
Halawa Shaft
St Stephens Sem
Ewa Plantation 711
Kapalama Heights Res.
Maunawili
Manoa Tunnel 2
Honolulu WBAP
Pauoa Flats
Honolulu Substa 704
Punchbowl Crater
Tantalus
HSPA Exp Sta
Univ of Hawaii
Wilhelmina Rise
Waikiki
Waialae Kahala
Pacific Heights Res 4
Paiolo Vly
Kamehame
Makapuu Point
Beretania Pumping Sta
Kaalakei
Wailupe Res
Lunalilo Home
Portlock Road
Waiahole Valley Sch
Downett Highlands
Tantalus Peak


MOLOKAI
LANAI
KAHOOLAWE
MAUI
Keonelele Pens
Molokai AP
Kualapuu
Maunaloa 511
Kaleupapa
Kaunakakai Mauka
Kaunakakai
Waikolu
Kamalo Mauka
Mapulehu
Puuohoku Ranch
Kaenapuu 490
Mahana
Lanai City
Lanaihale
Waiakeakua
Kaumalapau Harbor
Manele 676
Nakalele Fld 60
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Honokohua
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Honokohau
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Waiehu Camp
Puu Kukui Makai
Kahoma Intake
Kahului WB AP
Speckelsville
Wahikuli
Kukui
Iao Needle
Wailuku
Lahaina
Kauaula Intake
Olowalu
Launiupoko Intake
Launiupoko Village
Olowalu Gulch
Waikapu
Puunene
Keahua
Pohakea Bridge
Ukumehame
Kuhei
Twin Gates
Paia
Pauwela
Haiku
Hamakuapoko
Halehaku 492.2
Kullua
Lupi Upper
Waikamoi
Halimalle
Haleakala B E S
Kailiili
Haleakala Ranch
Keanae
Puohokamoa 2
Waikamoi Dam
Paakea
Olinda
Ukulele
Wailua Iki
Hana Arp
Kula Heights
Puu Pakii
Honomanu Gulch
Haleakala RS
Holua Cabin 259.5
Hana
Haleakala Summit
Kula Sanatorium
Keawakapu Beach
Polipoli Spgs
Panilelhuiu
Hanahuli
Kaupo Ranch House
Ulupalakua Ranch
Kipahulu
Auwahi
Waiopai Rch
USCOMM-ESSA-Asheville, N.C.
Revised 1-69


HAWAII
Upolu Point USCG
Kohala Mission
Kohala 179.1
Niulii
Hawi
Kohala Mauliili
Puukumau
Honokane
Kehena
East Honokane
Kukuihaele Mill
Kukuihaele Hic
Middle Pen
Hatna
Pauuhau
Paauilo
Kukaiau
Ookala
Kawainui Lower
Koiawe Lower
Mauna Kea Beach
Kamuela
Lalamilo Field Office
Kamuela Airport
Puako
Umikoa
Honohina
Hakalau
Halepiula
Puu Mali
Keanakolu Camp
Puu Kihe
Kona Village 93, 8
Honomu Mauka
Pepeekeo Makai
Puu Laau
Halopohaku
Papaikou Mauka 140, 1
Papaikou
Puu Waawaa
Huehue
Pohakuloa 107
Puu OO 82
Kipa
Piihonua
Hilo WB AP
Saddle Road 1
Kaumana
Hualalai
Lanihau
Waiakea SCD
Kona Airport
Honuaula
Ahua Umi
Keaau 92
Holualoa
Holualoa Beach
Middle Holualoa
Kulani Mauka
Kulani School Site
Orchid Land Estate
Puu Lehua
Mountain View
Kulani Camp
Mauna Loa Slope Obs
Kainaliu
Kaawaloa
Pahoa
Kapoho Landing
Kealakekua
Lava Tree Park
Napoopoo
Honaunau
Hawaii Volcns NP Hq
Halemaumau
Pakao
Kalapana No. 1 67, 8
Naulu Forest
Opihihale 2
Kapapala Ranch
Kealwa Camp
Pahala
Moaula
Kahiawai
Manuka
Kaala Iki
Kiolakaa A + F
Naalehu
Kamaoa No 2
South Point Corral
South Point
Tracking Sta 1, 2
PLATE 2
STATUTE MILES
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
USCOMM-ESSA-Asheville, N.C.
Revised 2-69